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AIR QUALITY MONITORING REPORT

ONTARIO

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Ministry of the Environment

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Minister

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Deputy Minister

Introduction:

This report contains a summary of 1983 air quality data obtained by continuous monitoring instruments for gases at 109 stations, and hi-volume samplers for particulate matter at 164 stations. Wind and temperature data from 24 locations are also summarized.

Summaries of the hourly averaged data for sulphur dioxide, soiling index, carbon monoxide, hydrocarbons (total, reactive and methane), ozone, total reduced sulphur, nitrogen dioxide, nitric oxide, nitrogen oxides, wind direction, air temperature, vertical temperature gradient and Air Pollution Index as well as the daily measured data for total suspended particulate matter, lead, iron, copper, cadmium, chromium, zinc, manganese, nickel, vanadium, sulphate and nitrate obtained at these monitoring locations are given in this report.

For several years the measured ambient gas and particulate data were published first in bound volumes and more recently on microfiche. By 1983, the annual database had grown to approximately 8,000,000 data points. A survey by the Air Quality Assessment Unit showed that users of the Ontario Air Quality database required either (a) a large amount of data in magnetic tape format, (b) statistical summaries in hardcopy, or (c) small subsets of the database in hardcopy. In short, there was no identified need for transcription of the entire database from soft to hard storage. Publication of the data also presented difficulties when the inevitable post-publication errors were discovered in the database and several pages of "errata" had to be produced and distributed. Consequently, the expense and effort which *were* expended on the publication of the raw data will, in future, be redirected to increasing the scope of the air pollution statistics and introducing air quality trends into the Annual Air Quality Monitoring Report.

Requests for the Air Quality Monitoring Report, or subsets of the data in hardcopy or magnetic tape should be directed to: The Air Quality Unit, Air Resources Branch, Ontario Ministry of the Environment, Toronto, Ontario.

Sampling Stations:

Table 1 lists the stations in the Ontario monitoring network with continuous hourly sampling instruments. The first eight columns give the region in which the monitor is located, the station identification number and name, its bearing on the Universal Transverse Mercator (UTM) grid projection, the survey type, the elevation of the station above mean sea level and the height of the air intake above ground. The remaining seven columns indicate the pollutants — total reduced sulphur (TRS), sulphur dioxide (SO_2), soiling index (COH), ozone (O_3), carbon monoxide (CO), hydrocarbons (HC), and nitrogen oxides (NOx) — monitored at that station. The survey type indicates whether a station is oriented toward a specific source (S) or for general ambient air quality (A). N indicates the site was nonconforming to the Canadian Federal-Provincial criteria for monitor siting to such a degree that resulting data may not be strictly comparable with results at other monitoring locations.

The locations of continuously monitoring stations for Metropolitan Toronto, Hamilton, the Sudbury area, and Windsor are shown in Figures 1, 2, 3 and 4 respectively.

Table 2 lists the stations in the Ontario monitoring network for suspended particulate matter using the hi-volume sampling method. The first eight columns give the region in which the monitor is located, the station number and name, the survey type, the UTM grid coordinates, the station elevation and air intake height. These columns are the same as those in Table 1. The survey type consists of a letter indicating the survey purpose, either oriented towards a specific source (S) or for general ambient air quality (A). N indicates the site was nonconforming to the Canadian Federal-Provincial criteria for monitor siting to such a degree that resulting data may not be strictly comparable with other monitoring results, and the numeral indicates sampling frequency — daily (1), once every three days (3) or once every six days (6). The remaining three columns indicate those analyses performed on the exposed filter that are herein reported: total suspended particulate matter (TSP), one or more of the metals, lead, iron, zinc, copper, cadmium, chromium, vanadium, nickel, and manganese, and sulphate and nitrate (SO_4^{-2}/NO_3^-).

The location of monitors in Metropolitan Toronto, Hamilton and Windsor are shown in Figures 1, 2 and 4 respectively.

Table 3 outlines the stations with meteorological sampling instrumentation. The first six columns are as described above for continuous and hi-volume sampling. The next column gives the sensor type: WS — wind speed, WD — wind direction, T — ambient temperature or DT — temperature gradient. The numeral indicates the general level of the sensor (1 = low, 2 = middle, 3 = high). The last column gives the sensor height in meters.

Criteria for Desirable Ambient Air Quality:

When pollutants are released into the ambient air, they may have a significant adverse effect on man, animals, vegetation or property. In order to determine at what concentration significant adverse effects occur, Ontario employs a permanent standards setting committee. The committee, comprised of experts in several fields, reviews the scientific literature and recommends concentrations and averaging times for the air quality criteria. The desirable ambient air quality criteria are set at the lowest concentration causing a known significantly adverse effect These criteria, therefore, serve as a convenient yardstick by which the Province may estimate its success in achieving in concentration causing a known significantly adverse effect. These criteria, therefore, serve as a convenient yardstick by which the Province may estimate its success in achieving its goals for desirable ambient air quality through emission controls.

Table 4 outlines the criteria for desirable ambient air quality for those contaminants contained in this report. The criteria are given in units of parts per million by volume of air, parts per billion by volume of air, coefficient of haze (COH) per 1000 feet of air or micrograms per cubic metre of air for the sampling time appropriate for each criterion: 1 hour, 8 hours, 24 hours or 1 year.

1983 Measurements:

Validation and processing of air quality data in Ontario is the responsibility of the Air Quality and Meteorology Section of the Air Resources Branch. The instrumentation, however, has been installed and maintained by the Technical Support Group in each of the six Regional Offices. Analysis of hi-volume filters is done in the Ministry's Laboratory Services and Applied Research Branch.

Continuous monitoring data are acquired in two ways. Data from stations in major population centres and those areas which have a publicized Air Pollution Index are telemetered in real-time to the central data-acquisition facility at the Air Resources Branch in Toronto where they are digitized, stored on magnetic tape, and then computer-processed into the Air Quality Information System (AQUIS). All other data are recorded locally on analog charts which are later read and digitized by the Air Quality Unit, and then processed by computer for entry into the AQUIS files in the same way as the telemetered data.

Exposed filters from the high-volume sampling network are collected by the Regions and are sent to the Laboratory Services and Applied Research Branch. There, the total suspended particulate concentration is determined, and any required analyses for the components of the particulate matter are performed. Data are then stored in the Laboratory's Sample Information System (SIS) and, at intervals, abstracted from the SIS files to the AQUIS files.

In this Volume, the annual summaries of hourly readings of continuous monitoring and daily measurements of hi-volume results for each station and contaminant are reported. Each line gives the station number and location, the number of days, hours or samples for which valid data were obtained, the percentile distribution, and, where appropriate, the number of times the air quality criteria were exceeded. For continuous monitoring results, the arithmetic mean, maximum 1-hour concentration and maximum 24-hour concentration are also reported. (In the case of carbon monoxide, the maximum 8-hour concentration is reported instead of the 24-hour concentration.) For the hi-volume results, the arithmetic mean, geometric mean and maximum 24-hour concentrations are reported. The reported percentiles (10, 30, 50, 70, 90 and 99) indicate the cumulative frequency distribution for that pollutant. That is, the concentration reported is that concentration which is not exceeded X% of the time. For example, if the 70 percentile for SO_2 is .010 ppm, this means that the concentration of SO_2 did not exceed .010 ppm on 70% of the hours reported for this site.

Meteorological data and the Air Pollution Index are summarized by the number of hours of data reported in various categories or by mean and percentiles depending upon the most appropriate method of reporting the data.

Only those stations which report valid readings on 6570 hours for continuous 1-hour monitoring, and 40 samples for hi-volume monitoring during 1983 are considered to have an adequate sample size from which to determine a representative annual mean. For those stations reporting fewer than the required number of samples, the reported arithmetic or geometric mean cannot be considered as representative for the comparison with the annual criterion for sulphur dioxide, soiling index or total suspended particulate matter.

Analyses of Data:

Sulphur Dioxide: (See Table 5)

When fuels containing sulphur are burned or ores containing sulphur are smelted, the sulphur joins with the oxygen in the air to form sulphur oxides. Sulphur dioxide (SO_2) is the major sulphur oxide produced in these processes. It is a heavy, pungent, colourless gas which easily combines with water vapour to form sulphurous acid (H_2SO_3) or with oxygen to form sulphur trioxide (SO_3). Both sulphurous acid and sulphur trioxide may further react to form sulphuric acid (H_2SO_4) — a major component of acid rain.

The gaseous sulphur oxides (SO_2 and SO_3) have been associated with human respiratory illness, vegetation damage, and the weathering of materials. In the acid or acid salt form (sulphate or sulphite), the sulphur oxide can adversely affect respiratory health, vegetation or materials, and cause reduction of visibility through the atmosphere. Sulphur oxides also are a major factor in increasing the acidity of precipitation.

Of the 70 stations in the Ontario network, only one recorded an annual mean above the annual criterion of 0.02 ppm: Niagara Falls Rd./Ontario St., Thorold (0.022). This station is located near an industrial source of SO_2.

Most of the stations which exceeded either the 1-hour or the 24-hour criterion on more than one occasion were located in the vicinity of major industrial sources of SO_2. The station measuring the highest 24-hour average (0.82 ppm) was Niagara Falls Rd./Ontario St., Thorold. The highest 1-hour average (2.27 ppm) was also measured at Niagara Falls Rd./Ontario St., Thorold. Twenty-two stations reported exceedences of the 1-hour criterion of 0.25 ppm. The most exceedences (125) occurred at Niagara Falls Rd./Ontario St., Thorold. Eleven stations exceeded the 24-hour criterion at least once.

Carbon Monoxide: (See Table 6)

Carbon monoxide (CO) is produced during the incomplete combustion of hydrocarbon fuels. In terms of total weight and concentration, it leads all other contaminants in city air. Mobile sources, mainly cars, trucks and buses, are almost exclusively responsible, accounting for over 90% of all CO emissions. Pollutant control equipment on automobiles has been the main method used in reducing CO emissions in Ontario.

When CO is inhaled, it enters the bloodstream through the lungs and binds chemically to hemoglobin, the substance which transports oxygen to the cells of the body. Because CO is bound to the hemoglobin instead of oxygen, less oxygen is available for transport to the muscles and organs. With less oxygen available to the heart, there is a reduction in the amount of blood pumped through the body and therefore the amount of oxygen available to the body is further reduced. In a person with heart disease, the effects of excessive carbon monoxide can be hazardous. Those persons with respiratory disorders such as emphysema may also be severely affected.

The highest concentrations of carbon monoxide were measured at 381 Yonge St. in Toronto. This station, located close to a major traffic artery and with the urban street canyon, measured an annual average of 3.8 ppm, a maximum 8-hour average of 21 ppm and a 1-hour maximum of 29 ppm. The 8-hour criterion of 13 was exceeded 16 times at this station. All stations met the 1-hour criterion of 30 ppm.

Hydrocarbons: (See Tables 7, 8 and 9)

Hydrocarbons are emitted naturally from trees and other vegetation and in the decay of animal and plant material. They are also emitted by motor vehicles, gasoline storage tanks and many industrial sources such as the petroleum and chemical industries. The non-methane fraction of the total hydrocarbons is of special interest because it reacts with the nitrogen oxides in the atmosphere in the presence of sufficient sunlight to form ozone and other oxidant chemical species.

Three types of measurement of hydrocarbons are made in Ontario: methane, reactive (non-methane) hydrocarbons and total hydrocarbons. The instrumentation used employs flame ionization detection techniques to determine the total hydrocarbon concentration as well as the methane concentration and the reactive (non-methane) hydrocarbon concentration in parts/million of carbon.

No criterion have been set for desirable ambient concentrations of total hydrocarbons, reactive hydrocarbons or methane. The highest annual mean for total hydrocarbons was reported at Bronte Rd./Woburn Cres., Oakville: 2.73 ppm. The highest annual mean methane concentration (1.64 ppm) occurred at Cheapside Rd./Walpole Conc. 5, Nanticoke and the highest annual reactive hydrocarbon concentration occurred at Walpole South P.S., Nanticoke (0.40 ppm).

No monitoring station measured all three types of hydrocarbons over a full year.

Ozone: (See Table 10)

Ozone is a naturally occurring constituent of the upper atmosphere where it plays an important role in the maintenance of life on the ground by absorbing harmful ultraviolet radiation. In the lower atmosphere, ozone is detrimental to the health of man and plants and causes damage to some materials. Unlike most other pollutants, however, ozone is generally not directly emitted into the atmosphere by specific sources. Instead, it is the product of chemical reactions in the presence of adequate sunlight between reactive hydrocarbon compounds and nitrogen oxides.

Ozone is the main constituent of the Los-Angeles-type smog which, along with other photochemical oxidants and peroxyacetyl nitrate (PAN), have been associated at high concentrations with adverse effects on human health. Ozone may irritate the lining of the nose and throat and hinder the functioning of the lungs. Many plants, especially some varieties of commercial crops such as white bean and tobacco, may be severely injured or killed by high cncentrations of ozone.

Since time is required for the photochemical reactions to produce ozone, the highest concentrations are often found some distance downwind from the source of nitrogen oxides and reactive hydrocarbons. In addition, ozone is capable of travelling long distances through the atmosphere. Thus, ozone formed in the Mississippi or Ohio River Valleys in the United States may reach Ontario. This long-range transport of ozone has become a major area of concern in recent years.

Ozone transport and formation are both very dependent upon large-scale weather conditions, therefore year-to-year average concentrations as well as the number of criterion exceedences may be quite variable. Ozone concentrations are also seasonally dependent with highest concentrations occurring during the late spring and summer. Therefore, annual mean concentrations are of lesser importance than the number of hours the 80 ppb criterion is exceeded. The only stations which did not exceed the 1-hour criterion in 1983 were located in Northern Ontario (Thunder Bay, Hawkeye Lake and Mission). Stations reporting more than 120 exceedences of the criterion were located at Long Point Provincial Park (169) and Simcoe (182).

The maximum 1-hour concentration was measured at Lawrence/Kennedy, Scarborough: 0.159 ppm. The maximum 24-hour O_3 average was measured at Simcoe: 0.089 ppm.

Total Reduced Sulphur: (See Table 11)

Much of the total reduced sulphur (TRS) measured in Ontario is in the form of hydrogen sulphide (H_2S). In the vicinity of pulp and paper mills and refineries, however, significant concentrations of mercaptans and other reduced sulphurs may be present. Reduced sulphur compounds are also released from swamps, bogs and marshes as the result of anaerobic decay processes.

The reduced sulphurs are objectionable because of their unpleasant odour at very low concentrations (often less than 30 ppb). Silver and copper tarnish and lead-based paints blacken in the presence of H_2S.

Maximum concentrations of total reduced sulphur for a 1-year average (4.9 ppb), 24-hour average (70 ppb) and 1-hour average (254 ppb) occurred at 262 Church St., Fort Frances. The majority of stations, most of which monitor near industry, reported maximum concentrations in excess of 60 ppb. No criteria have yet been set for TRS although a guideline of 27 ppb for a 1-hour average has been set for measurements made in the vicinity of Kraft paper mills. All such monitors exceeded the guideline.

Nitrogen Dioxide (See Table 12)

Nitrogen dioxide (NO_2) is one of a number of nitrogen oxide compounds which are formed both by man and nature. The main natural sources in the lower atmosphere are lightning and soil bacteria. Nitrogen and oxygen from the atmosphere are also combined during high temperature combustion such as occurs in automobile engines, power plants, incinerators and many chemical processes to form nitrogen dioxide.

Nitrogen dioxide in high concentrations may have a detrimental effect on the respiratory system especially to those with chronic lung disease. Nitrogen dioxide may also react with hydrocarbon compounds in the presence of sunlight to form ozone and other photochemical pollutants (See section on Ozone) or react with water to form nitric acid, a component of acidic precipitation, which may affect health and corrode materials.

Nitrogen dioxide was measured at 31 sites in Ontario in 1983. The maximum annual mean NO_2 concentration was 0.040 ppm at 381 Yonge St. in Toronto. The maximum 1-hour (0.18 ppm) concentration occurred at both Junction Triangle in Toronto and Evans/Arnold Ave. in Etobicoke while the maximum 24-hour concentration (.010) occurred at Bathurst/Wilson, North York. There were no exceedences of the 1-hour (.020) or 24-hour (.010) criteria.

Nitric Oxide: (See Table 13)

Nitric oxide (NO), like nitrogen dioxide, is formed by natural sources such as lightning and bacteria and by high-temperature combustion of fossil fuels such as automobile engines. In the latter formation, it is nitric oxide which is formed first and, when in high concentration and in the presence of oxygen or hydrocarbons, oxidized further to nitrogen dioxide.

No evidence exists that nitric oxide at the concentrations measured in the ambient atmosphere has any direct adverse effect on health and welfare. However, with its conversion to NO_2, the effects previously mentioned may occur.

Nitric oxide is measured at 32 sites in Ontario. The maximum annual mean concentration of nitric oxide, 0.084 ppm, was measured at Bathurst/Wilson, North York. The maximum 1-hour concentration was recorded at Edna/Frederick St., Kitchener: 0.94 ppm. The maximum 24-hour average of 0.37 ppm was reported at Bathurst/Wilson, North York. Both of these sites are located near a major expressway.

Nitrogen Oxides: (See Table 14)

Nitrogen oxides, the sum of nitrogen dioxide and nitric oxide concentrations, are measured at 32 sites. The maximum annual concentration of 0.117 ppm occurred at 381 Yonge St. in Toronto. The maximum 1-hour (1.01 ppm) and 24-hour (0.41 ppm) concentrations occurred at Kitchener and Bathurst/Wilson, North York respectively.

Suspended Particulate Matter:

Traditionally, air pollution has been identified by the public with black or dark smoke. Improved combustion technology and a switch to cleaner-burning fuels have eliminated most of the sooty particles causing the darkness of the smoke. Suspended particulate matter is still, however, the most visible of air contaminants. The composition varies considerably with time, place and season and may contain soil particles, organic matter or compounds containing sulphur, nitrogen, chlorine or metals such as lead.

Suspended particulate matter or its constituents may cause the corrosion or soiling of materials, a decrease in sunlight or atmospheric visibility, damage to vegetation or adverse effects on human or animal health.

There are many sources of suspended particulate matter, both natural and man-made. Fine particles of dust from combustion, incineration, construction, mining, metals smelting and processing, grinding processes, agriculture and transportation constitute much of man's contribution. Natural sources include wind-blown soil, forest fires, ocean spray and volcanic activity. When the particulate matter is emitted into the atmosphere, most of the larger particles fall to the ground close to their source while the smaller ones may travel distances as great as thousands of kilometres with the wind before settling to the surface. It should be noted, however, that, based on estimates made in the United States, only 5% of the total particulate matter released into the atmosphere comes from controllable sources; the remaining 95% come from natural and fugitive sources.

Suspended particulate matter is measured by either the hi-volume method or the soiling index method in the Ontario network. The hi-volume method collects particles on a glass-fibre filter over a 24-hour period and the sampler is run on a once a day, once every three days or once every six days sampling cycle. The soiling index method samples on a paper tape for one hour and is run continuously.

Soiling Index: (See Table 15)

The soiling index is a relative measure of suspended particulate matter in the size range of particles which most easily enter the lungs. In this method, the soiling properties of the particulate matter deposited upon a paper tape filter are measured by the reduction of light transmitted through the soiled filter. The amount of reduction in transmission is related to the quantity, opacity and darkness of the deposited particles. The evaluation is carried out on a 1-hour sampling of air. The unit of measure for soiling index is the Coefficient of Haze (COH) per 1000 feet of air sampled.

36 stations reported soiling index for a 1-hour sampling period in 1983. The maximum annual mean was reported at Bathurst/Wilson, North York: 0.57 COH/1000 ft. Three sites, Sherbourne/Wilton, Toronto; North Park, Hamilton; and Bathurst/Wilson, North York, exceeded the annual criterion of 0.50 COH/1000 ft.

The maximum 24-hour average (1.9 COH/1000 ft.) was measured at both Bathurst/Wilson, North York and Barton/Wentworth, Hamilton, API backup. Twenty-one monitoring sites reported 24-hour averages in excess of the 24-hour criterion of 1.0 COH/1000 ft. but only seven did so more than 10 times: Bathurst/Wilson, North York (39); North Park, Hamilton (34); Barton/Wentworth, Hamilton API backup, (15); Barton/Wentworth, Hamilton (13); Sherbourne/Wilton, Toronto (13); 467 University Ave. W., Windsor (12); and 467 University Ave. W., Windsor API backup (12).

Total Suspended Particulate Matter (See Table 16)

Total suspended particulate matter (TSP) was measured at 164 sites in Ontario in 1983. Daily monitoring was performed at 26 sites, once every three day monitoring at 32 sites and once every six days monitoring at 106 sites.

The maximum annual geometric mean for TSP occurred at 185 Queen St. S., Thorold: 111 micrograms per cubic meter (ug/m^3). The annual criterion of 60 ug/m^3 (geometric mean) was exceeded at 24 sites.

The maximum 24 hour concentration was measured at Stelco North, Nanticoke: 379 ug/m^3. One hundred and sixteen stations reported exceedences of the daily criterion of 120 ug/m^3. The most exceedences at a daily monitoring station were 75 at North Park, Hamilton; at a once in three-day station: 34 at Bonney St. Pumphouse, Sault Ste. Marie; at a once in six-day station: 25 at 185 Queen St. S., Thorold.

Sulphate in Suspended Particulate Matter: (See Table 11)

Sulphates (SO_4^{-2}) are formed by the oxidation of sulphur trioxide which when combined with water vapour forms sulphuric acid (H_2SO_4). The sulphuric acid may then combine with ammonia or some other anion to form a sulphate compound.

Many different sources emit sulphur, or sulphur compounds into the atmosphere. Natural sources of sulphur include sea spray, bacterial decomposition, volcanoes and forest fires. Anthropogenic sources include the burning of fuels containing sulphur (such as coal and oil), the smelting of sulphur-containing metals and the refining of petroleum.

The sulphate compounds, especially the acid forms, have been linked to respiratory irritation and disease, corrosion of materials, reduction of visibility and the formation of acidic precipitation.

Sulphate concentrations reported here are derived from the particulate matter collected on glass-fibre filters. It has been found that artifact sulphates form on glass-fibre filters from ambient SO_2 and that reported sulphate concentrations are therefore artificially high. No attempt has been made to correct the data reported here. Caution should be taken in interpreting absolute concentrations. Relative comparison among samples or stations is likely less affected.

The highest annual arithmetic mean for particulate sulphate concentrations (15.7 micrograms per cubic metre) was reported at Bonney St. Pump House, Sault Ste. Marie as was the maximum measured concentration for 24-hours (166.3 ug/m^3).

Nitrate in Suspended Particulate Matter: (See Table 18)

Nitrogen oxide compounds, formed from atmospheric nitrogen and oxygen under high temperature combustion, photochemical reactions or bacterial action may react with other compounds in the air to form nitrate (NO_3–) or nitric acid (HNO_3).

Natural sources of nitrogen oxides or nitrates include lightning, biological agents, sea spray or photochemical reactions. Anthropogenic sources include all high-temperature combustion processes, transportation and fertilizer production and usage. Nitrate and nitric acid are involved in corrosion of materials, visibility degradation and acidic precipitation. They may also be an adverse factor on human health.

Particulate nitrate is collected in the Ontario network on glass-fibre filters. Studies have shown that, like sulphates, artifact nitrates are formed on this filter medium. There remains some uncertainty as to the degree of artifact formation. The data reported herein are unaltered and user caution is recommended in interpreting absolute concentrations.

The maximum annual arithmetic mean concentration of particulate nitrates, 5.1 ug/m^3, was reported at Mississauga Public Library and Bramalea Fire Hall. The maximum measured 24-hour concentration was 23.0 ug/m^3 at North Park, Hamilton.

Lead in Suspended Particulate Matter: (See Table 19)

Because of its many useful properties, lead has been utilized by man since antiquity. The health hazards of this metal have also been long recognized. The concern over these hazards focused during the 19th and 20th century on death and serious illness caused mainly by the ingestion of lead. With the near elimination of lead poisoning as a cause of death in the past two decades, attention now has turned to the more subtle adverse health effects of exposure to lead such as impairment of mental functions.

Much of the particulate lead emitted into the atmosphere results from the combustion of gasoline containing lead additives. Other sources of lead particles include the secondary smelting of lead, battery manufacture, metal fabrication (brass, bronze and solder), some paint and glass manufacture and the production of iron, steel, copper and nickel. Since 1972, there has been a reduction in the lead content of gasoline. This reduction coupled with the introduction of lead-free gasoline in 1975 has resulted in a decrease in the amount of lead emitted from gasoline usage in Ontario.

The lead concentration on the hi-volume filters is determined by either X-ray fluorescence or atomic absorption spectrophotometry.

Maximum lead concentrations are found in the vicinity of lead processing plants in the Metropolitan Toronto area. These operations have been under special intensive study since 1973. The maximum annual average concentration (2.6 ug/m^3) and the highest single 24-hour measurement (32.3 ug/m^3) both occurred at 2414 Dixie Rd., Mississauga. The 24-hour criterion of 5.0 ug/m^3 was exceeded 110 times across this network. The most exceedences (50) were registered at 2414 Dixie Rd., Mississauga.

The maximum concentrations at the stations not near lead processing plants are found at stations monitoring close to major traffic arteries. The maximum annual average concentration was recorded at Bathurst/Wilson, North York (0.7 ug/m^3) as was the highest daily measurement (3.3 ug/m3). None of these sites measured lead concentrations in excess of the 5.0 ug/m^3 criterion.

Iron in Suspended Particulate Matter: (See Table 20)

Iron particles are among the most abundant of the heavy metals emitted into the air. Major sources include iron ore

processing, steel manufacturing, incineration, coal burning, smelting of other metals and road dust. Iron is also released as a result of the weathering of iron/steel materials such as the rusting of automobiles. Natural sources of iron particles include volcanoes and terrestrial dust from the weathering of rocks and soil.

The analysis of the iron content of particulate is performed by atomic absorption spectrophotometry (AA) or induced coupled plasma techniques (ICP).

The maximum annual arithmetic mean for particulate iron occurred at Bonney St. Pumphouse, Sault Ste. Marie: 6.5 ug/m^3. The maximum 24-hour concentration was measured at Burlington/Leeds, Hamilton: 19.3 ug/m^3.

Nickel in Suspended Particulate Matter: (See Table 21)

The maximum 24-hour concentration for nickel occurred at Killaly East/James, Port Colborne: 1.480 ug/m^3 as did the highest annual arithmetic mean concentration (.158). There were no exceedences of the 24-hour criterion (2.0 ug/m^3) during 1983.

Copper in Suspended Particulate Matter: (See Table 22)

The 95 Inkerman St., Guelph monitor recorded the highest annual average concentration of particulate copper in 1983 (0.92 ug/m^3). The highest 24-hour concentration was 3.43 ug/m^3 collected at the Experimental Farm, Simcoe, well below the Ontario criterion of 50.0 ug/m^3.

Recent studies have shown that copper measurements may be affected by contamination of the sample by the motor on the sampling device. This contamination is highest when a new motor is installed and decreases with motor age. No attempt has been made to correct the data for this effect.

Cadmium in Suspended Particulate Matter: (See Table 23)

The maximum 24-hour concentration, 0.380 ug/m^3, was measured at 3050 Lakeshore Blvd., Etobicoke, as was the maximum annual average: 0.016 ug/m^3. The criterion of 2.0 ug/m^3 for a 24-hour average was not exceeded.

Chromium in Suspended Particulate Matter: (See Table 24)

The Lasco Hopkins St. S., Whitby monitor recorded the highest annual average chromium concentration in 1983: 0.021 ug/m^3. The highest 24-hour measurement in the Province, 0.545 ug/m^3, was at 3050 Lakeshore Blvd. West, Etobicoke. The criterion of 1.5 ug/m^3 for a 24-hour average was not exceeded.

Zinc in Suspended Particulate Matter: (See Table 25)

The highest annual average zinc concentration (1.0 ug/m^3) and the maximum 24-hour value (7.0 ug/m^3) were recorded at Lasco Hopkins St. S., Whitby.

Manganese in Suspended Particulate Matter: (See Table 26)

The maximum manganese concentration for a 1-year average (0.480 ug/m^3) occurred at Bonney St. Pump House, Sault Ste. Marie. The highest 24-hour measurement (1.530 ug/m^3) occurred at Lasco Hopkins St. S., Whitby. The 24-hour criterion was not exceeded.

Vanadium in Suspended Particulate Matter: (See Table 27)

The highest annual average concentration for particulate vanadium, 0.014 ug/m^3, occurred at Sarnia, Cornwall and Thunder Bay. No exceedences of the 2.0 ug/m^3, 24-hour average criterion were measured in 1983.

Ontario's Air Pollution Index (See Tables 28 and 29)

Despite the best efforts of pollution control, the emission of contaminants into the air cannot be totally eliminated without bringing all man's activities to a halt. Whenever pollutants are released to the atmosphere, the potential exists for the buildup of concentrations to unacceptable levels during weather conditions which are unsuitable to their dispersion or removal (e.g. light winds, limited vertical mixing depth). Since it is economically unrealistic, and often impossible, to control emissions so that under *no* circumstances will pollution concentrations approach critical levels, there is a need for an alert system to warn of increasing pollution concentrations.

The Air Pollution Index (API) was introduced in Ontario in 1970 to protect the public from air pollution episodes caused by emissions under adverse weather conditions. Two pollutants, sulphur dioxide and suspended particulate matter, were chosen for the Index based upon the results of health studies during severe air pollution episodes. These studies showed a definite correlation between illness and high concentrations of SO_2 and TSP. The API was thus devised as a basis for action in an alert system to control or prevent an air pollution episode caused by these two pollutants. Legislation in Ontario authorizes the Minister of the Environment to order any source not essential to public health and safety to curtail or cease its operations when pollutant concentrations which may be injurious to health are reached.

The Ontario API is calculated from the average SO_2 concentration and average soiling index for the preceeding 24 hours. Hourly concentrations of these pollutants are measured in each city where an Index is reported and sent via the Ontario Air Quality Telemetry Network to the Air Resources Branch office in Toronto. There, a computer calculates the 24-hour averages and the resulting API which is released to the public. Whenever the API reaches critical levels, the Duty Meteorologist is informed, and based upon his forecast of continuing adverse weather conditions, action may then be taken by Regional Abatement Officers.

If the API reaches 32, and the Duty Meteorologist forecasts a continuation of adverse weather conditions for the next six hours, an "Air Pollution Advisory" is issued. At this time, significant sources of SO_2 and particulate matter are advised to curtail operations.

The "First Alert" level occurs at an API of 50 with meteorological conditions expected to continue for at least six hours. Major sources may be ordered by the Minister to curtail operations.

If abatement action does not succeed in stopping the rise in API, or if weather conditions worsen, a "Second Alert" is issued at 75. With a forecast of continued adverse weather, the Minister may order further curtailment.

At 100, an "Air Pollution Episode Alert" is issued and, again with a forecast of six hours of adverse weather conditions, all non-essential sources may be ordered to shut down their operations by the Minister. At this level, the pollution concentrations may have an effect on healthy individuals and may seriously endanger the health of those with severe cardiac or respiratory disease.

The Air Pollution Index Alert System was first introduced in Toronto on March 23, 1970. Since that time it has expanded to other Ontario cities: Hamilton in June 1970, Sudbury in January 1971, Windsor in March 1971, Happy Valley in May 1971, Welland in January 1974, Niagara Falls in November 1974, Coniston in February 1975, New Sudbury in March 1976, Sarnia in December 1977 and St. Catharines in September 1979. The Happy Valley API was terminated in January 1975, and the Welland API was terminated in October 1978.

The maximum recorded API in the Province in 1983 occurred on Jan. 22 in New Sudbury when an Index of 63 was reached. This was the only city to exceed 50 during 1983. The Advisory Level of 32 was reached on 3 occasions in Toronto and once each in Hamilton, Sudbury, Windsor and New Sudbury.

An API of 15 or less is considered as "Very Good" air quality: 16-31 is considered "Good": 32-49 is considered "Moderate": 50-99 is "Poor" air quality and 100 or greater is "Very Poor". A summary of the number of hours in each of

these categories is given in Table 28. The majority of hours are in the "Very Good" designation for all locations.

The history of the Index stations — the maximum level and the number of times the Index has equalled or exceeded 32 and 50 for the years 1970 to 1983 are given in Table 29.

Wind: (See Table 30)

The Ontario monitoring network includes 24 wind sensors. They are installed to have the best possible exposure practical at each site. There are instances, however, where monitor siting may not conform to the recommended criteria of the World Meteorological Organization or the Canadian Atmospheric Environment Service.

The wind direction data are partitioned into an eight-point compass, North, Northeast, East, Southeast, South, Southwest, West and Northwest. No direction is defined during periods when the wind speed is less than 5.0 kilometers per hour. These are reported as hours of calm conditions. The frequency of "Calm" conditions is also given in Table 30.

Wind speed data are stored in AQUIS but they are not summarised here.

Ambient Air Temperature: (See Table 31)

Eight sites in the Ontario network measure ambient air temperature at the lowest level of the tower. Data are reported for annual minimum, maximum and mean and the number of hours occurring in each of seven temperature ranges.

Vertical Temperature Differences: (See Tables 32 and 33)

The vertical temperature difference between the lowest level of each of the eight monitoring towers and either the mid level (Level 2 — Level 1) or upper level (Level 3 — Level 1) are given in Tables 32 and 33 respectively. The number of hours occurring in each of 7 or 8 categories are reported along with the annual mean difference. The temperature difference when divided by the distance between the two temperature sensor (the column labeled 'Height Difference') provides an approximate measurement of the thermal stability of the atmosphere termed the temperature gradient. A temperature gradient of less than -0.017 Celsius degrees per meter is indicative of an unstable atmosphere, a condition generally conducive to rapid mixing and dilution of pollutants in the air. Values between -0.017 and 0.015 Celsius degrees per meter are indicative of a neutrally stable atmosphere, a state conducive to moderate mixing and dilution. Temperature gradients greater than 0.015 Celsius degrees per meter characterize a stable atmosphere, a state associated with poor mixing and diffusion. Positive temperature gradients which reflect an atmospheric state in which air temperatures increase with height (warm air over cold air) is commonly referred to as a temperature inversion, or, simply, an inversion.

Table 1 **Stations with Continuous Sampling Instrumentation**

(Pollutant data abstracted hourly)

REGION	STATION NUMBER	NAME OF STATION	SURVEY TYPE	UTM GRID EAST	UTM GRID NORTH	SITE ELEVATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	POLLUTANT MONITORED						
								TRS	SO_2	COH	O_3	CO	HC	NO_x
SOUTH WEST	10001	College of Agric. Tech., Huron Park	A	04600	47931	243	5				X			
	12008	467 University Ave. W. Windsor	A	03316	46867	183	11		X	X	X	X	X	X
	12013	3665 Wyandotte St. Windsor	A	03358	46874	183	6		X					
	12016	College-South St. Windsor	A	33290	46841	183	4		X	X				
	12032	Morton Dock Windsor	A	03271	46817	177	4	X	X					
	12108	467 University Ave. Windsor API Backup	A	03286	46867	183	11			X				
	12116	College/Prince Backup Windsor	A	03289	46839	183	4			X				
	13021	MOE Pump. Stn. Middle Road, Merlin	A	03991	46776	190	3				X			
	14004	Hydro SS, Concession 14/15, Courtright	A	03808	47343	183	3		X					
	14016	Lambton G.S. Hwy. 40, Courtright	A	03793	47397	180	4		X					
	14062	242 Indian Rd. S., Sarnia	A	03878	47578	183	4	X	X					
	14064	Centennial Park, Front St./CN Tracks, Sarnia	A	03854	47592	182	3		X	X	X	X	X	X
	14118	PUC Water Pump Stn. Hwy. 21, Petrolia	A	04027	47564	206	4				X			
	14119	Water Pumping Stn. Thedford	A	04303	47798	180	5				X			
	14164	Centennial Park Sarnia API Backup	A	03854	47596	182	3			X				
	15001	King-Rectory London	A	04818	47595	259	4		X	X	X	X	X	X
	15009	Conservation Authority Longwoods	A	04607	47477	238	2			X				
	15013	Water Pumping Stn Parkhill	A	04448	47793	198	5				X			
	18007	Concession Rd. 2 Lot A, Tiverton	A	04541	49053	192	4	X	X		X			
WEST CENTRAL	22071	Experimental Farm Simcoe	A	05597	47449	236	4		X	X	X		X	X
	22086	Cheapside Rd. 3 Km. S. of Hwy. 3 Nanticoke	S	05821	47472	206	5		X					X
	22901	100 M.S. Hwy. 59 Long Point Prov. Pk.	A	05502	47138	174	4		X		X	X		X
	22902	Tyneside/Chippewa Rd. Binbrook West	A	05914	47746	213	5		X		X	X		X
	22903	Cheapside Rd./Walpole Conc. 5, Nanticoke	A	05821	47472	206	4	X					X	
	22904	Walpole South PS Sandusk Rd., Nanticoke	A	05794	47434	198	4	X					X	
	22905	Nanticoke Rd./Walpole Conc. 5, Nanticoke	A	05744	47456	198	4	X					X	
	22906	Sandusk Rd. Btwn. Walpole Conc. 4/5, Sandusk	AN	05787	47458	198	4							X
	22907	Nanticoke Village WNW 03	A	05752	47398	186	4	X						
	26029	Edna/Frederick St. Kitchener	A	05427	48116	325	5		X		X	X		X
	27037	North/Geneva St. St. Catharines	A	06431	47805	107	5		X	X	X	X	X	X
	27042	Niagara Falls Rd. Ontario St., Thorold	S	06469	47739	175	5		X					
	27048	Niagara Public Works Dominion Rd., Fort Erie	A	06670	47500	175	2		X					
	27049	Murray/Buchanan Ave. Niagara Falls	A	06561	47716	195	5		X	X				
	27051	Holy Trinity Church Norton Portage, Chippawa	SN	06580	47644	185	16	X	X					
	27052	185 Queen St. S. Thorold	S	06460	47749	180	3	X	X	X				
	27055	Stanley Ave. Niagara Falls	S	06559	47763	185	4	X	X					
	27056	Allendale Ave. Niagara Falls	A	06557	47718	205	5		X	X				
	27137	North/Geneva St. St. Catharines API Backup	A	06431	47805	106	6		X	X				

Table 1 — *Continued ...*

REGION	STATION NUMBER	NAME OF STATION	SURVEY TYPE	UTM GRID EAST	UTM GRID NORTH	SITE ELEVATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	POLLUTANT MONITORED						
								TRS	SO_2	COH	O_3	CO	HC	NO_x
WEST CENTRAL	27149	Murray/Buchanan Ave. Niagara Falls API Backup	A	06561	47716	195	5		X	X				
	27156	Allendale Ave. Niagara Falls Backup	A	06557	47718	205	5		X	X				
	28025	Farquhar/Wyndham St. Guelph	A	05609	48213	320	4		X					
	29008	North Park Hamilton	S	05984	47927	79	3	X	X	X			X	X
	29025	Barton/Wentworth Hamilton	S	05939	47900	92	4	X	X	X	X	X	X	X
	29125	Barton/Wentworth Hamilton API Backup	S	05939	47900	92	4		X	X				
CENTRAL	31049	Mission, 381 Yonge Street, Toronto	A	06304	48351	91	4					X		X
	31103	26 Breadalbane Toronto API Backup	A	06302	48356	104	15		X	X				
	31104	26 Breadalbane Toronto API	AN	06302	48356	104	15		X	X	X	X	X	X
	31105	Sherbourne/Wilton Toronto	A	06317	48338	76	5		X	X	X	X		X
	31120	Junction Triangle Perth Ave., Toronto	A	06248	48344	113	9		X	X	X	X	X	X
	32006	Leaside East York	S	06323	48399	131	4		X					
	33003	Lawrence-Kennedy Scarborough	A	06389	48452	168	3		X	X	X	X	X	X
	33014	Victoria Pk. Scarborough	S	06367	48429	153	3		X					
	33019	Met. Branch, Scar. Bluffs, Scarborough	A	06422	48411	152	3		X					
	34002	Science Centre Don Mills Rd., North York	A	06338	48419	107	9		X		X		X	X
	34007	Bathurst-Wilson North York	A	06261	48437	214	2		X	X		X	X	X
	35003	Elmcrest Rd. Etobicoke	A	06142	48338	152	4		X		X	X	X	X
	35005	Queensway Hospital Etobicoke	A	06149	48293	107	9		X					
	35033	Evans-Arnold Etobicoke	A	06192	48302	107	3		X	X	X	X	X	X
	35050	MOE Lab, Resources Road, Etobicoke	AN	06175	48405	152	18		X					
	44008	Hwy. 2/North Shore Blvd. E., Burlington	AN	05972	47964	270	17		X		X			X
	44015	Bronte Rd./Woburn Cres. Oakville	A	06031	48059	91	5	X	X	X	X	X	X	X
	45025	Ritson Rd./Olive Ave. Oshawa	A	06724	48624	107	4		X	X	X	X		X
	46100	Public School, Green Glade Rd., Mississauga	SN	06124	48187	92	11		X					
	46110	Queensway West/Huron-tario St., Mississauga	A	06122	48249	101	5		X		X	X		X
	47035	M. of A., 509 Victoria St. E., Alliston	A	05918	48898	183	4				X			
	47042	Armoury Building Pk Parkside St., Barrie	A	06038	49157	229	12		X					
	48002	MTC Yard, Hwy. 47 Stouffville	A	06391	48694	259	4		X		X			X
	49010	Hwy. 117/Paint Lake Rd. Dorset	A	06624	50096	323	3		X		X			X
	59006	City Hall, 500 George St. Peterborough	AN	07137	49095	198	18		X					
SOUTH EAST	51001	McDonald Gdns. Ottawa	A	04471	50312	61	4		X	X	X	X		X
	51038	General Hospital 342 McGill, Hawkesbury	SN	05300	50535	46	15		X					
	56051	Memorial Park Cornwall	A	05208	49846	61	4	X	X	X	X	X		X
	56068	435 Second St. W. Cornwall	S	05205	49845	66	6	X						
NORTH WEST	61014	Sewage Treatment Plant Balmertown	A	04482	56561	370	6		X					
	61026	56 King St. Dryden	A	05117	55140	366	5	X						
	61030	112 Fourth St. N. Kenora	S	03929	55142	345	10		X					
	62032	Cemetery, Colonization Road, Fort Frances	A	04697	53841	336	5	X						
	62051	Boise Cascade, Victoria Avenue, Fort Frances	A	04710	53835	338	5	X						

Table 1 — *Continued ...*

REGION	STATION NUMBER	NAME OF STATION	SURVEY TYPE	UTM GRID EAST	UTM GRID NORTH	SITE ELEVATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	POLLUTANT MONITORED						
								TRS	SO_2	COH	O_3	CO	HC	NO_x
NORTH WEST	62052	262 Church St. Fort Frances	A	04708	53839	340	8	X						
	63022	Hospital, 35 Algoma St. N. Thunder Bay	AN	03356	53672	223	22		X					
	63034	Peninsula Bldg. Marathon	AN	05453	53960	215	12	X						
	63040	435 James St. Thunder Bay	AN	03302	53607	189	15		X		X			
	63046	Montreal St. Thunder Bay	SN	03298	53584	191	15	X						
	63084	Recreation Centre Red Rock	A	04080	54216	190	7	X						
	63090	St. Martin School Terrace Bay	A	04927	54034	275	8	X						
	63100	Hawkeye Lake	A	03175	53931	460	4		X		X			X
NORTH EAST	71057	Michipicoten Ave. Lot 38, Town of Mission	S	06625	53110	198	4		X		X			
	71058	Sir James Dunn Public School, Wawa	SN	06663	53180	303	10		X					
	71059	Carl M. Beck Public School, Wawa	S	06661	53181	243	10		X					
	71066	Farewell Pumphouse Sault Ste. Marie	S	07024	51561	183	4		X		X	X		X
	75010	OPP Station North Bay	A	06197	53105	212	4		X					
	77009	Burwash Sudbury Airshed	A	05144	51228	227	3		X					
	77010	Callum Sudbury Airshed	A	05270	51525	275	3		X					
	77012	Skead Sudbury Airshed	A	05186	51678	272	3		X					
	77013	Hanmer Sudbury Airshed	A	05041	51663	288	3		X					
	77014	Rayside Sudbury Airshed	A	04934	51615	275	3		X					
	77016	Ash Street Water Tank Sudbury	A	04994	51486	290	3		X	X	X	X		X
	77018	St. Charles Sudbury Airshed	A	05449	51343	227	3		X					
	77028	Government/Edward Coniston	A	05118	51480	242	5		X	X				
	77029	Post Office Spruce/Barber Espanola	S	04405	51235	212	5	X						
	77065	Falconbridge Rd. Garson, Sudbury District	A	05109	51559	288	5		X					
	77066	Temagami Sudbury Airshed	A	05704	52022	294	5		X					
	77075	Kennedy St. New Sudbury	A	05044	51520	261	5		X	X				
	77092	Laurent Hosp., 41 Ramsey Lake Rd., Sudbury	AN	05004	51459	259	12			X				
	77096	Long Lake Rd. Sudbury, Villa Loyola	A	04992	51387	275	4		X					
	77116	Water Tower, Ash St. Sudbury, API Backup	S	04994	51486	290	3			X				
	77128	Government/Edward St. Coniston, API Backup	S	05118	51480	244	5			X				
	77175	Kenedy St. New Sudbury, API Backup	S	05044	51520	262	5			X				
	77201	Mikkola, J. Hamilton Walden Town	A	04915	51405	229	5		X					

Survey Type:
A — Ambient survey for general air quality
S — Source-specific survey
N — Station does not conform to Canadian Federal/Provincial siting criteria

Table 2 **Stations with Hi-Volume Sampling for Suspended Particulate Matter**

(Pollutant data collected for 24-hour period)

REGION	STATION NUMBER	NAME OF STATION	SURVEY TYPE	COORDINATES UTM GRID EAST	NORTH	SITE ELEVATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	ANALYSES TSP	METALS	SO_4^{-2}	NO_3^-
SOUTH WEST	10015	PUC Bldg., 64 West St., Goderich	A6	04425	48434	213	6	X			X
	11001	35 Thomas St. St. Marys	A6	04879	47884	305	3	X			
	12002	City Hall 44 Windsor Ave., Windsor	AN6	03323	46867	183	17	X	X		X
	12005	7730 Riverside Dr. W. Windsor	A6	03395	46890	174	7	X	X		X
	12006	Beach Lane, Hwy. 18 La Salle	A6	03264	46778	180	2	X			
	12008	467 University Ave. W. Windsor	A1	03316	46867	183	9	X	X		X
	12009	9725 Riverside Dr. E. Little River	A6	03413	46888	180	2	X	X		X
	12010	Tecumseh Sewage Stn. Manning Rd., Windsor	A6	03460	46875	180	1	X	X		X
	12013	Filtration Plant, 3665 Wyandotte St. E., Windsor	A6	03358	46874	183	8	X	X		X
	12015	Sewage Plant Hwy. 18 Prospect. Windsor	A6	03283	46833	175	6	X	X		X
	12016	College South St. Windsor	A6/3	03290	46841	183	4	X	X		
	12032	Morton Dock Bedford Ojibway, Windsor	A6	03271	46817	175	4	X	X		X
	12036	1802 George St. Windsor	A6	03367	46858	186	5	X			
	12037	3225 California St. Windsor	A6	03327	46816	183	5	X			
	12039	Dougall E.C. Rowe W. Windsor	A6	03337	46821	195	5	X	X		
	12053	415 Front St. Amherstburg	A6	03253	46657	187	10	X			
	13003	Post Office 10 Center St. Chatham	AN6	04024	46952	156	12	X	X		X
	14001	General Hospital 220 Mitton St., Sarnia	AN6	03860	47587	183	17	X	X		X
	14016	Opposite Lambton GS Hwy.40, Courtright	A1	03793	47397	183	1	X	X		X
	14030	R.R.#1, West of the House, Corunna	A6	03939	47486	200	1	X	X		X
	14031	R.R. #1, West Side of Barn, Mooretown	A6	03938	47461	200	1	X	X		X
	14054	Sarnia Yacht Club Port Edward, Sarnia	A6	03846	47617	181	5	X	X		X
	14059	St. Clair Blvd. Hwy. 40 Corunna	AN6	03813	47481	192	4	X			
	14062	242 Indian Rd. S. Sarnia	A6	03878	47578	183	4	X			
	14064	Centennial Park Front St. CN Tracks, Sarnia	A6	03854	47596	192	4	X	X		X
	14151	St. Clair River David Front St., Sarnia	A6	03852	47588	182	4	X			X
	15001	Western Fair Grounds King Rectory, London	A6	04818	47595	259	4	X	X		X
	15003	362 Dundas St. London	AN6	04801	47590	277	17	X	X		X
	15006	16 Alexandria St. St. Thomas	S6	04856	47361	229	4	X			
	15007	Fern Ford. 1012 Talbot St. St. Thomas	S6	04857	47360	229	9	X			
	15008	Edgeware Rd., NNW of Varta Plant, St. Thomas	S6	04876	47379	245	2	X	X		
	15009	Conservation Authority Longwoods	A3	04607	47477	238	2	X	X		
	17006	St. Anthony's SS Hwy. 2, Beachville	S6	05132	47696	302	5	X			
	17020	Spriel, Hwy. 2 R.R. #2, Ingersoll	S6	05118	47675	300	2	X			
	17021	Heston Farm, Oxford City Rd. 6, Zorra	S3	05102	47722	305	1	X			
WEST CENTRAL	22031	Selkirk	A6	05871	47432	183	3	X			
	22056	Port Dover	AN6	05641	47383	190	4	X			
	22069	Sandusk	A6	05788	47457	206	4	X			
	22071	Experimental Farm Simcoe	A6	05597	47449	236	1	X	X		X
	22086	Cheapside Rd., 3 km S. of Hwy. 3, Nanticoke	A6	05821	47472	206	1	X			X

Table 2 — *Continued ...*

REGION	STATION NUMBER	NAME OF STATION	SURVEY TYPE	COORDINATES UTM GRID EAST	COORDINATES UTM GRID NORTH	SITE ELEVATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	ANALYSES TSP	ANALYSES METALS	ANALYSES $SO_4^{=}$	ANALYSES NO_3^-
WEST CENTRAL	22087	Jarvis Community Centre James Street, Jarvis	A6	05724	47481	180	4	X			
	22090	St. George/Alma Port Dover	A6	05643	47377	190	5	X			
	22902	Tyneside/Chippawa Rd. Binbrook West	A6	05914	4774	213	5	X			
	22904	Walpole South PS Sandusk Rd., Nanticoke	A6	05794	47434	198	4	X			
	22951	Walpole Con. 11/ Sandusk Rd., Hagersville	A6	05768	47548	221	2	X			
	22952	100 M SE Lakeshore Rd Peacock Prov. Park	A6	05822	47388	185	2	X			
	22953	Waterford Conc. 2/ E. Quarterline Dogs Nest	S3	05702	47396	197	2	X			
	22954	E. Quart. Line/ Waterford Conc. 13 Villa Nova	A6	05654	47535	229	2	X			
	22955	Hald-Norf Rd. 8/ Cayuga Conc. 2 Rainham Centre	A6	05943	47441	191	2	X			
	22956	Hald-Norf Rd. 17 H-N Rd. 32 Canfield South	A6	06026	47527	183	2	X			
	22957	Fisherville Indian Line Rd. Fisherville	A6	05886	47509	206	1	X			
	22958	H-N Rd. 63 5 Km E H-N Rd 14 Canborough East	A6	06109	47607	181	2	X			
	22959	Hwy. 59 Big Creek Wildlife Reserve	A6	05449	47165	173	2	X			
	22960	McKenzie Rd. H-N Rd. NN Dufferin North	A6	05839	47600	215	2	X			
	22961	Nanticoke Rd. Walpole Con. 2, Nanticoke North	S3	05758	47412	190	3	X			
	22963	NNW 6 Stelco North	S3	05838	45323	198	2	X			
	26029	Edna Frederick St. Kitchener	A6	05427	48116	325	4	X	X	X	
	27006	71 King St. St. Catharines	A6	06425	47797	108	12	X	X	X	
	27009	Norton Portage Chippawa	S6	06581	47693	183	4	X			
	27014	Stanley Chippawa Pkwy Chippawa	AN6	06562	47679	206	4	X			
	27030	Killaly E. James Port Colborne	S6	06444	47501	180	5	X	X		
	27037	North Geneva St. St. Catharines	A6	06431	47805	106	5	X	X	X	
	27045	337 Alberta at Devon St., Welland	S6	06433	47587	180	1	X			
	27047	Davis Frazer Port Colborne	S6	06435	47497	180	3	X	X		
	27049	Murray Buchanan Ave. Niagara Falls	AN6	06561	47716	195	5	X	X	X	
	27052	185 Queen St. S. Thorold	S6	06460	47749	180	1	X			
	27053	First Ave., Bridge St. Niagara Falls	S6	06566	47745	180	1	X			
	27055	STP Grounds Stanley Ave., Niagara Falls	S6	06559	47763	185	4	X			
	27056	Allendale Ave. Niagara Falls	A6	06557	47718	205	5	X	X	X	
	28024	95 Inkerman St. Guelph	SN6	05597	48203	330	9	X	X		
	28025	Farquhar/Wyndham St. Guelph	A6	05609	48213	320	9	X	X	X	
	28027	Hanlon Expwy. Speed River, Guelph	S6	05594	48190	300	6	X			
	29001	Hughson Hunter Hamilton	AN6	05918	47894	99	9	X	X	X	
	29007	City Hall Hamilton	AN6	05914	47895	107	46	X			
	29008	North Park Hamilton	SN1	05984	47927	79	4	X	X	X	
	29009	Kenilworth Hamilton	AN6	05967	47884	91	5	X			
	29011	Burlington Leeds Hamilton	S6	05954	47905	79	5	X	X	X	
	29012	Burlington Wellington Hamilton	AN6	05931	47914	84	7	X	X	X	

Table 2 — *Continued...*

REGION	STATION NUMBER	NAME OF STATION	SURVEY TYPE	COORDINATES UTM GRID EAST	NORTH	SITE ELEVATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	ANALYSES TSP	METALS	$SO_4^{=}$	NO_3^-
WEST CENTRAL	29017	Chatham Frid Hamilton	A6	05898	47896	99	5	X	X	X	
	29025	Barton/Wentworth Hamilton	SN1	05939	47900	91	4	X	X	X	
	29067	450 Hughson St. N. Hamilton	AN6	05925	47913	84	5	X	X	X	
	29085	Upper Wellington/ Inverness, Hamilton	A6	05921	47880	195	5	X	X	X	
	29087	405 Cumberland Ave. Hamilton	A6	05946	47882	95	4	X		X	
	29089	Barton Nash Hamilton	A6	06000	47879	85	6	X			
	29090	Westdale Library Hamilton	A6	05890	47903	100	5	X			
	29098	Bay/Main St. Hamilton	A6	05913	47896	101	23	X			
CENTRAL	31058	Mosley/Leslie St. Toronto	SN1	06346	48353	76	5	X	X		
	31064	17 Berkshire Ave. Toronto	SN1	06345	48353	77	1	X	X		
	31079	Fire Hall 1285 Dufferin St., Toronto	AN1	06259	48359	122	10	X	X		
	31082	Works Dept. 138 Hamilton Ave., Toronto	SN1	06325	48354	91	4	X	X		
	31084	Maydwell Mfg. 65 Saulter St., Toronto	S1	06333	48351	85	6	X	X		
	31085	Tecumseth/Niagara St. Toronto	S1	06287	48330	84	6	X	X		
	31103	26 Breadalbane Toronto Backup	A3	06302	48356	84	6	X	X	X	
	31104	26 Breadalbane Toronto	AN1	06302	48356	104	12	X	X	X	
	31105	Sherbourne/Wilton St. Toronto	AN3	06317	48338	76	5	X	X	X	
	31120	Junction Triangle Perth Ave., Toronto	SN3	06248	48344	116	11	X	X	X	
	31123	26 Breadalbane Toronto	A3	06302	48356	84	6	X	X	X	
	31124	26 Breadalbane Toronto	A3	06302	48356	84	6	X	X	X	
	31181	60 Bathurst St. Toronto	S1	06288	48332	246	25	X	X		
	33003	Lawrence/Kennedy Scarborough	A3	06389	48451	160	1	X	X	X	
	33019	Met. Branch, Scarborough Bluffs, Scarborough	A3	06422	48411	152	1	X	X	X	
	34002	Science Centre 770 Don Mills Rd., North York	A3	06338	48419	107	8	X	X	X	
	34007	Bathurst/Wilson North York	A3	06259	48435	183	7	X	X	X	
	35003	Elmcrest Rd. Etobicoke	A3	06142	48338	152	1	X	X	X	
	35005	Queensway Hospital Etobicoke	AN3	06159	48293	107	15	X		X	
	35033	Evans/Arnold Ave. Etobicoke	A3	06192	48302	107	1	X	X	X	
	35037	3050 Lakeshore Blvd. W. Etobicoke	A1	06201	48285	88	6	X	X		
	35050	MOE Lab Resources Rd., Etobicoke	AN3	06175	48405	152	20	X			
	35051	Radiation Lab. Resources Rd., Etobicoke	AN1	06175	48403	146	15	X			
	44008	Hwy. 2/North Shore Blvd. E. Burlington	A3	05972	47964	270	4	X	X	X	
	44015	Bronte Rd./Woburn Cres. Oakville	S3	06031	48059	91	1	X	X	X	
	45001	Pickering Fire Hall Pickering	S1	06551	48548	91	1	X	X	X	
	45003	McDonald PS Pickering	S1	06554	48538	91	7	X			
	45005	Frenchman's Bay Sewage Pickering	S1	06543	48526	76	1	X			
	45006	Lakeshore Park Sewage Pickering	S1	06602	48538	81	1	X			
	45007	Ajax-Pickering Hospital Pickering	SN1	06596	48555	91	17	X			
	45008	Duffering Creek Sewage Plant Pickering	S1	06565	48533	91	3	X			
	45011	Public Library Oshawa	AN3	06714	48623	114	13	X	X	X	

Table 2 — *Continued...*

REGION	STATION NUMBER	NAME OF STATION	SURVEY TYPE	COORDINATES UTM GRID EAST	NORTH	SITE ELEVATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	ANALYSES TSP	METALS	SO_4^{-2} NO_3^-
CENTRAL	45025	Ritson Rd./Olive Ave. Oshawa	A3	06727	48618	104	5	X	X	X
	45060	Lasco Hopkins St. S. Whitby	S1	06683	48579	96	3	X	X	X
	46025	Mississauga Public Library Mississauga	A6	06115	48257	137	7	X	X	X
	46033	Bramalea Fire Hall Bramalea	A6	06053	48398	198	5	X	X	X
	46041	2414 Dixie Rd. Mississauga	S1	06147	48286	111	12	X	X	
	46045	2365 Dixie Rd. Mississauga	S1	06148	48288	133	7	X	X	
	46046	2360 Dixie Rd. Mississauga	S1	06147	48286	111	14	X	X	
	46110	Queensway W./Hurontario St. Mississauga	A3	06122	48249	101	1	X	X	X
	47019	Post Office 17-25 Peter St. N., Orillia	A6	06255	49406	229	12	X		X
	47042	Armoury Bldg. Park Parkside St., Barrie	A3	06038	49157	229	12	X	X	X
	48002	MTC Yard #9, Hwy 47 Stouffville	A3	06391	48694	259	1	X		X
	58027	51 Shuter St. Port Hope	S1	07177	48694	84	5	X		X
	58028	2 Choate St. Port Hope	S1	07168	48689	94	5	X		X
	59006	City Hall 500 George St., Peterborough	AN3	07137	49095	198	15	X	X	X
SOUTH EAST	51001	McDonald Gdns., Rideau/ Wurtemburg St., Ottawa	A6	04471	50312	84	4	X	X	X
	51018	55 Queen St. Ottawa	A6	04454	50299	84	30	X		X
	54013	Post Office Bldg. Belleville	A6	03095	48926	98	8	X	X	X
	56006	4 Montreal Rd. Cornwall	A6	05223	49848	59	9	X		X
	56051	Memorial Park York/3rd St., Cornwall	A6	05208	49846	53	4	X	X	X
NORTH WEST	62013	Weather Station Atikokan	A6	06030	54008	366	1	X		
	62032	Cemetery, Colonization Rd. W. Fort Frances	A6	04697	53841	335	5	X		
	62035	Legion Building, 250 Church St. Fort Frances	S6	04707	53839	335	9	X		
	63005	Hospital, Archibald/ Arthur, Thunder Bay	AN6	03335	53608	190	24	X	X	X
	63012	Dawson Ct./Algoma St. N. Thunder Bay	A6	03372	53686	213	9	X		
	63022	Hospital, 35 Algoma St. N. Thunder Bay	AN6	03356	53672	222	22	X	X	X
	63040	435 James St. S. Thunder Bay	A6	03302	53607	189	15	X	X	X
	63046	Can Car Bldg., Montreal St., Thunder Bay	S6	03298	53584	190	15	X		
	63052	Trnst. Maint. Bldg. William Rd., Thunder Bay	A6	03729	53647	186	9	X		
	63070	Centennial Dr. Longlac	S6	05342	55134	320	1	X		
NORTH EAST	71020	Police Stn. Hillside Dr. N., Elliot Lake	A6	03729	51379	351	3	X		
	71022	Sault College, Queens St. Sault Ste. Marie	A6/3	07029	51550	183	5	X	X	X
	71023	Hydro Pole, Quirke Townsite No. 1, Elliot Lake	A6	03742	51517	388	4	X		
	71042	Bonney St. Pumphouse Sault Ste. Marie	S6/3	07011	51555	190	1	X	X	X
	71049	Land Reg. Office, Queen St., Sault Ste. Marie	A6/3	07047	51543	183	6	X	X	X
	71053	Denison Townsite Elliot Lake	S6	03766	51504	409	2	X		
	71054	Nordic Townsite Elliot Lake	A6	03788	51372	412	2	X		
	71062	Porridge Lake Subdiv. Elliot Lake	S6	03755	51365	335	5	X		
	71063	Stollery Lake/Trailer Park	A6	03735	51490	381	3	X		
	71065	St. Joseph's Hospital Blind River	A6	03488	51160	180	15	X		
	71066	Farwell Pumphouse Sault Ste. Marie	S3	07024	51561	183	4	X	X	X

Table 2 — *Continued...*

REGION	STATION NUMBER	NAME OF STATION	SURVEY TYPE	COORDINATES UTM GRID EAST	NORTH	SITE ELEVATION ABOVE MEAN SEA LEVEL (METRES)	AIR INTAKE ABOVE GROUND (METRES)	ANALYSES TSP	METALS	SO_4^{-2}/NO_3^-
NORTH EAST	75010	OPP Station North Bay	A6	06197	51305	212	4	X	X	X
	77016	Ash Street Water Tank Sudbury	A6/3	04994	51486	290	3	X	X	X
	77026	19 Lisgar St. Sudbury	A6	05006	51485	273	14	X	X	X
	77029	Post Office, Spruce/ Barber St., Espanola	A6	04405	51235	212	6	X		
	77070	Nickel St. Pump House Copper Cliff	S6	04950	51462	282	5	X	X	X
	77076	Post Office Falconbridge	S6	05144	51577	290	5	X	X	X

LEGEND

Survey Type:

A — Ambient survey for general air quality
S — Source-specific survey
N — Station does not conform to Canadian Federal Provincial siting criteria
6 — Ambient particulate levels measured every 6 days
3 — Ambient particulate levels measured every 3 days
1 — Ambient particulate levels measured daily

Analysis:

TSP: Filter analyzed for total suspended particulate matter

Metals: Filter analyzed for one or more of the following metals by atomic absorption, X-ray fluorescence or induced coupled plasma methods: lead, iron, copper, cadmium chromium, zinc, vanadium, nickel, manganese, cobalt.

SO_4^{-2}/NO_3^-: Filter analyzed for sulphate and nitrate ions.

Table 3 **Stations with Meteorological Sampling Instrumentation**
(Data abstracted hourly)

REGION	STATION NUMBER	NAME OF STATION	UTM GRID EAST	NORTH	SITE ELEVATION ABOVE MEAN SEA LEVEL (METRES)	SENSOR TYPE	SENSOR HEIGHT (METRES)
SOUTH WEST	10024	Grand Bend Airport	04413	47933	192	WS1,WD1	10
	12001	Grand Bend 1.1 km NNE				WS1,WD1,T	18
		Keith GS, Windsor	03276	46839	177	WS3,WD3,DT2	80
	13021	Merlin Water Pumping Station, Merlin	03991	46776	190	WS1,WD1	9
	14016	Opposite Lambton G.S. Courtright	03808	47343	183	WS1,WD1,T WS2,WD2,DT1 WS3,WD3,DT2	10 30 91
	14062	242 Indian Rd. S. Sarnia	03878	47578	183	WS1,WD1	9
	15013	Parkhill Water Pumping Station	04448	47793	198	WS1,WD1	10
	17006	St. Anthony's S.S.	05132	47696	302	WS1,WD1	10
	18013	Hwy 2, Beachville Bruce Nuclear Site	04537	49097	170	WS1,WD1,T WS2,WD2,DT1 WS3,WD3,DT2	10 30 100
WEST CENTRAL	27011	Hydro SS, Hwy 58 Allanburg	08476	47702	191	WS1,WD1,T WS2,WD2,DT1	10 37
	29026	Brampton/Woodward Hamilton	05996	47895	84	WS1,WD1,T WS2,WD2,DT1	10 61
CENTRAL	31025	Island Airport Toronto	06293	48320	81	WS1,WD1	10
	31045	Bruce P.S. Larchmount Ave., Toronto	06343	48354	79	WS2,WD2	21

Table 3 — *Continued ...*

REGION	STATION NUMBER	NAME OF STATION	UTM GRID EAST	UTM GRID NORTH	SITE ELEVATION ABOVE MEAN SEA LEVEL (METRES)	SENSOR TYPE	SENSOR HEIGHT (METRES)
CENTRAL	31120	Junction Triangle Perth Ave., Toronto	06248	48344	113	WS1,WD1	18
	33003	Lawrence-Kennedy Scarborough	06389	48452	168	WS1,WD1,T WS2,WD2,DT1	12 76
	35033	Evans/Arnold Ave. Etobicoke	06192	48302	107	WS1,WD1,T WS2,WD2,DT1 WS3,WD3,DT2	10 30 91
	44015	Bronte Rd./Woburn Cres. Oakville	06031	48059	91	WS1,WD1	10
	45025	Ritson Rd./Olive Ave. Oshawa	06718	48623	101	WS1,WD1	10
	48002	MTC Yard #9, Hwy 47 Stouffville	06391	48694	259	WS1,WD1	10
	58031	Filtration Plant Marsh St., Port Hope	07169	48688	85	WS1,WD1	10
SOUTH EAST	56065	861 West Second St. Cornwall	05200	49845	66	WS1,WD1	9
NORTH WEST	63084	Recreation Centre Red Rock	04080	54216	251	WS1,WD1	12
	63090	St. Martin School Terrace Bay	04927	54034	275	WS1,WD1	12
NORTH EAST	77013	Hanmer Sudbury Airshed	05041	51663	290	WS1,WD1	10
	77025	CKNC-TV 699 Frood Rd., Sudbury	04995	51505	288	WS1,WD1,T WS3,WD3,DT2	10 116

Legend: WS1 — wind speed below 23 m; WD1 — wind direction below 23 m;
WS2 — wind speed 23 m to 76 m; WD2 — wind direction 23 m to 76 m;
WS3 — wind speed above 76 m; WD3 — wind direction above 76 m;
T — ambient temperature; DT1 — temperature difference
Level 2 minus Level 1; DT2 — temperature difference Level 3 minus Level 1.

Table 4 **Criteria for Desirable Air Quality**
(per O. Reg. 872/74)

NAME OF CONTAMINANT	UNIT OF MEASUREMENT	AVERAGE AMOUNT OF CONCENTRATION	PERIOD OF TIME	APPROXIMATE EQUIV. AT 10° C AND 101.2 KPa PRESSURE
Carbon Monoxide	Parts of carbon monoxide per one million parts of air by volume	30	1 hour	36,200 ug/m^3
		13	8 hours	15,700 ug/m^3
Nitrogen Dioxide	Parts of nitrogen dioxide per one million parts of air by volume	0.20	1 hour	400 ug/m^3
		0.10	24 hours	200 ug/m^3
Ozone	Parts of ozone per one billion parts of air by volume	80	1 hour	165 ug/m^3
Soiling	Coefficient of Haze per 1000 feet of air	1.0	24 hours	—
		0.5	1 year	—
Sulphur dioxide	Parts of sulphur dioxide per one million parts of air by volume	0.25	1 hour	690 ug/m^3
		0.10	24 hours	275 ug/m^3
		0.02	1 year	55 ug/m^3
Cadmium	Micrograms of cadmium per cubic metre of air	2.0	24 hours	
Chromium	Micrograms of chromium per cubic metre of air	1.5	24 hours	
Copper	Micrograms of copper per cubic metre of air	50.0	24 hours	
Lead	Micrograms of lead per cubic metre of air	5.0	24 hours	

Table 4 — *Continued ...*

NAME OF CONTAMINANT	UNIT OF MEASUREMENT	AVERAGE AMOUNT OF CONCENTRATION	PERIOD OF TIME
Manganese	Micrograms of manganese per cubic metre of air	50.0	24 hours
Nickel	Micrograms of nickel per cubic metre of air	2.0	24 hours
Total Suspended Particulate Matter	Micrograms of total suspended particulate matter per cubic metre of air	120 60 (geo-metric mean)	24 hours 1 year
Vanadium	Micrograms of vanadium per cubic metre of air	2.0	24 hours

Table 5 — Summary of Data: Sulphur Dioxide (all values in p.p.m.)

Ontario Criteria — 1 Hour Average: 0.25 p.p.m.; 24-Hour Average: 0.10 p.p.m.; 1 Year Average: 0.02 p.p.m.
INS — Indicates insufficient sample size to apply 1 Year average criterion.

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1-HR	24-HR	NO. OF TIMES ABOVE CRITERIA 1-HR	24-HR	1 YR
	12008	467 University Ave. W. Windsor	353	.000	.000	.000	.005	.018	.054	.008	.17	.04	0	0	0
	12013	3665 Wyandotte St. E. Windsor	340	.000	.000	.000	.002	.009	.030	.005	.10	.04	0	0	0
	12016	College/South St. Windsor	356	.000	.000	.000	.007	.020	.049	.009	.22	.04	0	0	0
	12032	Morton Dock Bedford/Ojibway, Windsor	354	.000	.000	.000	.004	.011	.035	.006	.15	.03	0	0	0
	14004	Hydro SS Concession 14/15, Courtright	335	.000	.000	.000	.000	.009	.032	.004	.27	.04	0	0	0
	14016	Lambton GS Hwy. 40, Sarnia	351	.000	.000	.000	.000	.007	.050	.004	.42	.04	3	0	0
	14062	242 Indian Rd. S. Sarnia	354	.000	.000	.000	.000	.012	.057	.006	.24	.04	0	0	0
	14064	Centennial Park Front St./CN Tracks, Sarnia	362	.000	.000	.000	.005	.021	.094	.010	.21	.08	0	0	0
	14164	Centennial Park API Backup, Sarnia	364	.000	.000	.000	.004	.019	.094	.009	.22	.09	0	0	0
	15001	Western Fair Grounds King/Rectory, London	355	.000	.000	.000	.000	.008	.023	.003	.06	.03	0	0	0
	18007	Concession Rd. 2, Lot AA Tiverton	355	.000	.000	.000	.000	.007	.026	.003	.07	.03	0	0	0
	22071	Experimental Farm Simcoe	353	.000	.000	.000	.000	.006	.030	.003	.21	.04	0	0	0
	22086	Cheapside Rd. 3 km S of Hwy. 3, Nanticoke	360	.000	.000	.000	.001	.009	.032	.004	.13	.03	0	0	0
	22901	100 M S. Hwy. 59 Long Point Prov. Park	230	.000	.000	.000	.000	.007	.031	.003	.11	.04	0	0	0
	22902	Tyneside/Chippewa Rd. Binbrook West	326	.000	.000	.000	.001	.009	.033	.005	.21	.04	0	0	0
	26029	Edna/Frederick St. Kitchener	345	.000	.000	.000	.000	.004	.022	.002	.16	.04	0	0	0
	27037	North/Geneva St. St. Catharines	348	.000	.000	.000	.001	.012	.038	.005	.09	.04	0	0	0
	27042	Niagara Falls Rd./Ontario St. Thorold	331	.000	.000	.000	.000	.036	.491	.022	2.27	.82	125	13	1
	27048	Niagara Public Works Dominion Rd., Fort Erie	315	.000	.000	.000	.003	.012	.032	.005	.11	.03	0	0	0
	27049	Murray/Buchanan Ave. Niagara Falls	81	.000	.000	.000	.000	.013	.046	.005	.08	.03	0	0	0
	27051	Holy Trinity Church Norton/Portage, Chippawa	360	.000	.000	.000	.005	.011	.035	.007	.16	.03	0	0	0
	27052	185 Queen St. S., Thorold	130	.000	.000	.000	.009	.049	.125	.016	.18	.08	0	0	0
	27055	STP Grounds Stanley Ave., Niagara Falls	131	.000	.000	.000	.000	.006	.017	.003	.05	.01	0	0	0
	27056	Allendale Ave. Niagara Falls	276	.000	.000	.000	.000	.007	.029	.003	.07	.03	0	0	0
	27137	North/Geneva St., API Backup, Niagara Falls	349	.000	.000	.002	.008	.018	.043	.009	.13	.03	0	0	0
	27149	Murray/Buchanan API Backup, Niagara Falls	81	.000	.000	.000	.005	.015	.047	.007	.08	.03	0	0	0
	27156	Allendale Ave., Niagara Falls	276	.000	.000	.002	.007	.016	.036	.008	.08	.03	0	0	0
	28025	Farquhar/Wyndham St. Guelph	288	.000	.000	.000	.000	.007	.022	.003	.13	.02	0	0	0
	29008	North Park Hamilton	356	.000	.000	.002	.009	.029	.059	.012	.11	.06	0	0	0
	29025	Barton/Wentworth Hamilton	358	.000	.002	.006	.011	.027	.064	.014	.15	.04	0	0	0

Table 5 — *Continued ...*

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1-HR	24-HR	NO. OF TIMES ABOVE CRITERIA 1-HR	24-HR	1 YR
	29125	Barton/Wentworth API Backup, Hamilton	362	.000	.002	.006	.010	.025	.061	.014	.16	.04	0	0	0
	31103	26 Breadalbane, API Backup, Toronto	358	.000	.000	.000	.000	.009	.036	.004	.11	.05	0	0	0
	31104	26 Breadalbane Toronto	359	.000	.000	.000	.000	.009	.037	.004	.11	.05	0	0	0
	31105	Sherbourne/Wilton St. Toronto	333	.000	.000	.000	.001	.011	.034	.005	.17	.06	0	0	0
	31120	Junction Triangle Perth Ave., Toronto	327	.000	.000	.000	.002	.009	.032	.005	.18	.04	0	0	0
	32006	Leaside, East York	147	.000	.000	.000	.005	.013	.028	.006	.08	.03	0	0	0
	33003	Lawrence/Kennedy Scarborough	340	.000	.000	.000	.000	.007	.033	.003	.08	.04	0	0	0
	33014	Victoria Pk. Scarborough	141	.000	.000	.000	.000	.008	.033	.003	.09	.03	0	0	0
	33019	Met. Branch, Scarborough Bluffs, Scarborough	196	.000	.000	.001	.006	.014	.033	.007	.08	.04	0	0	0
	34002	Science Centre 770 Don Mills Rd., North York	339	.000	.000	.000	.005	.010	.036	.006	.14	.05	0	0	0
	34007	Bathurst/Wilson North York	354	.000	.000	.000	.000	.010	.039	.005	.16	.04	0	0	0
	35003	Elmcrest Rd. Etobicoke	321	.000	.000	.002	.006	.010	.031	.008	.47	.07	3	0	0
	35005	Queensway Hospital Etobicoke	348	.000	.000	.000	.004	.015	.037	.006	.24	.04	0	0	0
	35033	Evans/Arnold Ave. Etobicoke	362	.000	.000	.000	.000	.008	.025	.003	.08	.03	0	0	0
	35050	MOE Lab Resources Rd., Etobicoke	316	.000	.000	.004	.008	.018	.045	.011	.19	.05	0	0	0
	44008	Hwy. 2/North Shore Blvd. E. Burlington	334	.000	.000	.000	.003	.009	.025	.005	.09	.03	0	0	0
	44015	Bronte Rd./Woburn Cres. Oakville	349	.000	.000	.000	.000	.012	.063	.005	.19	.07	0	0	0
	45025	Ritson Rd./Olive Ave. Oshawa	355	.000	.000	.000	.000	.006	.029	.003	.09	.04	0	0	0
	46100	Public School Green Glade Rd., Mississsauga	351	.000	.000	.001	.005	.009	.027	.006	.11	.03	0	0	0
	46110	Queensway West/Huron-tario St., Mississauga	352	.000	.000	.000	.005	.009	.025	.006	.34	.06	3	0	0
	47042	Armoury Bldg. Park/Parkside St., Barrie	178	.000	.000	.000	.000	.002	.015	.001	.04	.02	0	0	0
	48002	MTC Yard #9 Hwy. 47, Stouffville	311	.000	.000	.000	.003	.009	.027	.005	.10	.04	0	0	0
	49010	Hwy. 117/ Paint Lake Rd., Dorset	237	.000	.000	.000	.000	.000	.009	.001	.04	.01	0	0	0
	59006	City Hall 500 George St., Peterborough	336	.000	.000	.000	.000	.000	.023	.002	.14	.05	0	0	0
	51001	McDonald Gdns., Rideau/ Wurtemburg St., Ottawa	357	.000	.000	.000	.000	.006	.024	.002	.08	.03	0	0	0
	51038	General Hospital 342 McGill, Hawkesbury	117	.000	.000	.001	.005	.009	.019	.006	.03	.02	0	0	0
	56051	Memorial Park York/Third St., Cornwall	354	.000	.000	.000	.004	.019	.076	.008	.25	.07	0	0	0
	61014	Sewage Treatment Plant Balmertown	336	.000	.000	.000	.000	.002	.240	.009	.67	.28	74	2	0
	61030	112 Fourth St. North, Kenora	100	.000	.000	.000	.000	.000	.011	.001	.04	.01	0	0	0
	63022	Hospital 35 Algoma St. N., Thunder Bay	349	.000	.000	.000	.000	.000	.004	.000	.02	.00	0	0	0
	63040	435 James St. S. Thunder Bay	356	.000	.000	.000	.000	.000	.008	.000	.04	.01	0	0	0
	63100	Hawkeye Lake	133	.000	.000	.000	.000	.000	.000	.000	.03	.01	0	0	0
	71057	Michipicoten Ave., Lot 38 Town of Mission	361	.000	.000	.000	.000	.000	.083	.003	.45	.08	20	0	0
	71058	Sir James Dunn Public School Wawa	287	.000	.000	.000	.000	.012	.104	.006	.89	.11	10	1	0
	71059	Carl M. Beck Public School Wawa	339	.000	.000	.000	.000	.000	.039	.002	.44	.12	8	1	0
	71066	Farwell Pumphouse, Sault Ste. Marie	291	.000	.000	.000	.000	.008	.047	.004	.14	.04	0	0	0
	75010	OPP Station North Bay	340	.000	.000	.000	.000	.004	.019	.002	.06	.02	0	0	0
	77009	Burwash Sudbury Airshed	284	.000	.000	.000	.000	.007	.062	.004	.32	.05	1	0	0
	77010	Callum Sudbury Airshed	332	.000	.000	.000	.000	.005	.055	.003	.44	.06	1	0	0
	77012	Skead Sudbury Airshed	304	.000	.000	.000	.000	.016	.203	.010	.58	.23	45	2	0

Table 5 — *Continued ...*

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1-HR	24-HR	NO. OF TIMES ABOVE CRITERIA 1-HR	24-HR	1 YR
	77013	Hanmer Sudbury Airshed	314	.000	.000	.000	.000	.009	.088	.006	.41	.08	9	0	0
	77014	Rayside Sudbury Airshed	340	.000	.000	.000	.000	.006	.042	.003	.45	.09	5	0	0
	77016	Ash Street Water Tank Sudbury	355	.000	.000	.000	.002	.019	.115	.009	.67	.15	18	1	0
	77018	St. Charles Sudbury Airshed	329	.000	.000	.000	.000	.000	.040	.002	.47	.10	4	0	0
	77028	Government/Edward St. Coniston	351	.000	.000	.000	.000	.009	.112	.006	.56	.08	20	0	0
	77065	Falconbridge Rd. Garson, Sudbury Airshed	306	.000	.000	.000	.000	.014	.156	.009	.97	.14	29	1	0
	77066	Temagami Sudbury Airshed	329	.000	.000	.000	.000	.004	.030	.002	.10	.03	0	0	0
	77075	Kennedy St. New Sudbury	352	.000	.000	.000	.000	.013	.122	.008	1.67	.32	20	1	0
	77092	Laurentian Hospital 41 Ramsey Lake Rd., Sudbury	307	.000	.000	.000	.001	.012	.107	.008	.56	.12	15	1	0
	77096	Long Lake Rd. Villa Loyola, Sudbury	342	.000	.000	.000	.000	.010	.118	.007	1.21	.14	22	1	0
	77201	Mikkola, J. Hamilton School, Walden Town	293	.000	.000	.000	.000	.006	.083	.005	.57	.10	15	0	0

Table 6 **Summary of Data: Carbon Monoxide (all values in p.p.m.)**

Ontario Criteria — 1 Hour Average: 30 p.p.m. 8 Hour Average: 13 p.p.m.

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1-HR	8-HR	NO. OF TIMES ABOVE CRITERIA 1-HR	8-HR
SOUTH WEST	12008	467 University Ave. W. Windsor	333	0.0	0.0	0.2	0.7	1.4	3.5	0.8	9	6	NIL	NIL
	14064	Centennial Park Front St./CN Tracks, Sarnia	358	0.0	0.0	0.0	0.0	0.0	1.8	0.1	8	5	NIL	NIL
	15001	Western Fair Grounds King/Rectory, London	358	0.0	0.0	0.0	0.0	0.8	3.3	0.3	10	8	NIL	NIL
WEST CENTRAL	22901	100 m S. Hwy. 59 Long Point Prov. Park	297	0.0	0.0	0.0	0.0	0.4	1.0	0.2	3	3	NIL	NIL
	22902	Tyneside/Chippawa Rd. Binbrook West	355	0.0	0.0	0.0	0.0	0.1	1.0	0.1	9	2	NIL	NIL
	26029	Edna/Frederick St. Kitchener	332	0.0	0.1	0.4	0.8	1.6	3.9	1.0	15	8	NIL	NIL
	27037	North Geneva St. St. Catharines	335	0.0	0.0	0.0	0.1	0.9	2.9	0.4	14	5	NIL	NIL
	29025	Barton/Wentworth Hamilton	333	0.0	0.0	0.2	0.7	1.7	3.9	0.9	12	6	NIL	NIL
CENTRAL	31049	Mission, 381 Yonge St. Toronto	361	1.1	1.7	2.6	3.8	6.5	14.8	3.8	29	21	NIL	16
	31104	26 Breadalbane Toronto	355	0.0	0.2	0.5	0.9	1.7	3.5	1.1	10	6	NIL	NIL
	31105	Sherbourne/Wilton Toronto	359	0.0	0.4	0.8	1.3	2.0	3.8	1.4	8	7	NIL	NIL
	31120	Junction Triangle Perth Ave., Toronto	353	0.0	0.2	0.6	1.0	1.9	4.0	1.3	13	8	NIL	NIL
	33003	Lawrence/Kennedy Scarborough	363	0.0	0.3	0.6	1.0	1.9	3.9	1.2	11	7	NIL	NIL
	34007	Bathurst/Wilson North York	365	0.0	0.3	0.7	1.3	2.4	4.7	1.4	9	6	NIL	NIL
	35003	Elmcrest Rd Etobicoke	323	0.1	0.6	1.0	1.5	2.0	3.4	1.6	7	4	NIL	NIL
	35033	Evans/Arnold Ave. Etobicoke	346	0.1	0.7	1.3	1.9	2.9	5.1	1.9	10	6	NIL	NIL
	44015	Bronte Rd./Woburn Cres. Oakville	357	0.0	0.3	0.6	0.9	1.8	5.9	1.3	11	8	NIL	NIL
	44025	Ritson Rd./Olive Ave. Oshawa	364	0.1	0.8	1.4	2.0	3.1	5.1	2.0	12	8	NIL	NIL
	46110	Queensway West/Huron-tario St., Mississauga	329	0.1	0.4	0.7	1.1	1.9	4.0	1.4	12	5	NIL	NIL
SOUTH EAST	51001	McDonald Garden Rideau/Wurtemburg St., Ottawa	365	0.0	0.0	0.0	0.0	0.5	1.9	0.2	9	4	NIL	NIL
	56051	Memorial Garden York/Third St., Cornwall	364	0.0	0.0	0.0	0.0	0.5	2.4	0.2	8	5	NIL	NIL
NORTH EAST	71066	Farwell Pumphouse Sault Ste. Marie	233	0.0	0.0	0.4	0.8	1.6	3.8	1.0	11	6	NIL	NIL
	77016	Ash Street Water Tank Sudbury	343	0.0	0.0	0.0	0.0	0.0	1.5	0.1	8	7	NIL	NIL

Table 7 **Summary of Data: Total Hydrocarbons (all values are in p.p.m.)**
No Existing Criteria

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1-HR.	24-HR.
SOUTH WEST	12008	467 University Ave. W. Windsor	339	1.76	1.86	1.96	2.08	2.37	3.47	2.09	6.3	3.2
	14064	Centennial Park Front St./CN Tracks, Sarnia	356	1.56	1.69	1.82	2.01	2.54	4.10	2.02	7.3	3.3
	15001	Western Fair Grounds King/Rectory, London	344	1.93	2.18	2.39	2.65	3.16	5.47	2.57	12.4	5.3
CENTRAL	31104	26 Breadalbane Toronto	359	.80	1.10	1.28	1.47	1.85	2.75	1.37	4.7	2.7
	31120	Junction Triangle Perth Ave., Toronto	327	1.48	1.69	1.86	2.09	2.53	4.15	2.02	6.8	3.7
	33003	Lawrence/Kennedy Scarborough	355	1.24	1.54	1.79	2.03	2.48	3.83	1.90	7.0	3.6
	34002	Science Centre 770 Don Mills Rd., North York	350	1.71	1.94	2.14	2.36	2.93	4.63	2.31	7.3	4.9
	34007	Bathurst/Wilson North York	354	1.56	1.75	1.92	2.11	2.56	3.45	2.05	5.2	3.5
	35003	Elmcrest Rd. Etobicoke	242	1.85	2.08	2.32	2.69	3.46	5.26	2.58	18.2	4.3
	35033	Evans/Arnold Ave. Etobicoke	348	1.41	1.67	1.93	2.22	2.76	3.96	2.08	5.8	4.0
	44015	Bronte Rd./Woburn Cres. Oakville	333	2.03	2.32	2.56	2.88	3.48	4.73	2.73	12.3	4.4

Table 8 **Summary of Data: Reactive Hydrocarbons (all values are in p.p.m.)**
No Existing Criteria

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1-HR.	24-HR.
SOUTH WEST	12008	467 University Ave. W. Windsor	336	.13	.21	.25	.30	.41	.80	.32	2.0	0.6
WEST CENTRAL	22071	Experimental Film Simcoe	326	.10	.13	.15	.18	.21	.29	.20	0.5	0.4
	22903	Cheapside Rd./Walpole Conc. 5 Nanticoke	325	.00	.04	.15	.29	.53	1.02	.27	17.0	1.7
	22904	Walpole South P.S. Sandusk Rd., Nanticoke	257	.12	.23	.34	.45	.59	.97	.40	1.3	1.0
	22905	Nanticoke Rd./Walpole Conc. 5 Nanticoke	334	.00	.05	.11	.19	.31	.52	.18	1.2	0.5
	27037	North/Geneva St. St. Catharines	276	.00	.05	.11	.19	.31	.77	.20	4.8	0.7
	29008	North Park Hamilton	354	.09	.14	.19	.25	.34	.46	.25	1.4	0.6
	29025	Barton/Wentworth Hamilton	354	.02	.08	.13	.18	.29	.67	.20	3.1	0.6

Table 9 **Summary of Data: Methane (all values are in p.p.m.)**
No Existing Criteria

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1-HR.	24-HR.
WEST CENTRAL	22903	Cheapside Rd./Walpole Conc. 5 Nanticoke	325	1.38	1.47	1.55	1.64	1.79	2.43	1.64	4.7	2.2
	22904	Walpole South P.S. Sandusk Rd., Nanticoke	257	1.14	1.25	1.35	1.51	1.68	1.95	1.44	2.6	2.0
	22905	Nanticoke Rd./Walpole Conc. 5 Nanticoke	334	1.30	1.40	1.47	1.56	1.69	2.05	1.59	2.9	2.1

Table 10 **Summary of Data: Ozone (all values in p.p.m.)**

Ontario Criteria — 1 Hour Average: 0.08 p.p.m.

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1-HR	24-HR	NO. OF TIMES ABOVE CRITERIA 1-HR
SOUTH WEST	10001	College of Agric. Tech. Huron Park	339	.006	.014	.021	.028	.045	.085	.024	.112	.074	107
	12008	467 University Ave. W. Windsor	346	.004	.006	.013	.022	.044	.085	.019	.135	.071	116
	13021	MOE Water Pump Stn. Middle Rd., Merlin	333	.006	.013	.020	.026	.042	.075	.023	.121	.066	57
	14064	Centennial Park Front St./CN Tracks, Sarnia	364	.002	.012	.021	.028	.043	.085	.023	.136	.077	116
	14118	PUC Water Pump Stn. Hwy. 21, Petrolia	344	.005	.012	.017	.022	.033	.060	.019	.097	.053	16
	14119	Water Pumping Stn. Thedford	134	.007	.015	.023	.029	.046	.081	.025	.118	.063	33
	15001	Western Fair Grounds King/Rectory, London	356	.001	.010	.018	.026	.043	.078	.021	.122	.060	72
	15013	Water Pumping Stn. Parkhill	120	.007	.016	.023	.032	.056	.090	.028	.121	.072	61
	18007	Concession Rd. 2 Lot A, Tiverton	348	.010	.019	.025	.031	.045	.082	.027	.139	.076	87
WEST CENTRAL	22071	Experimental Farm Simcoe	360	.010	.019	.026	.034	.054	.090	.030	.123	.089	182
	22901	100m S of Hwy. 59 Long Point Prov. Park	303	.011	.020	.026	.033	.054	.094	.030	.136	.087	169
	22902	Tyneside/Chippewa Rd. Binbrook West	303	.005	.015	.021	.028	.044	.076	.024	.118	.069	42
	26029	Edna/Frederick St. Kitchener	365	.000	.008	.015	.023	.042	.075	.019	.108	.071	57
	27037	North/Geneva St. St. Catharines	358	.001	.011	.019	.028	.052	.086	.023	.115	.084	116
	29025	Barton/Wentworth Hamilton	362	.001	.007	.015	.023	.041	.077	.019	.111	.065	61
CENTRAL	31104	26 Breadalbane Toronto	359	.000	.005	.012	.020	.038	.078	.017	.148	.066	79
	31105	Sherbourne/Wilton St. Toronto	353	.000	.004	.009	.015	.027	.060	.012	.109	.042	14
	31120	Junction Triangle Perth Ave., Toronto	347	.000	.005	.013	.022	.040	.085	.018	.153	.062	108
	33003	Lawrence/Kennedy Scarborough	364	.000	.005	.013	.020	.037	.078	.017	.159	.068	74
	34002	Science Centre 770 Don Mills Rd., North York	346	.000	.006	.015	.023	.039	.079	.018	.140	.051	77
	35003	Elmcrest Road Etobicoke	300	.000	.003	.011	.019	.036	.089	.016	.147	.074	119
	35033	Evans/Arnold Ave. Etobicoke	363	.000	.003	.009	.015	.031	.066	.013	.107	.046	29
	44008	Hwy. 2/North Shore Blvd. E. Burlington	350	.000	.008	.016	.023	.040	.075	.019	.116	.052	55
	44015	Bronte Rd./Woburn Cres. Oakville	358	.000	.008	.016	.023	.037	.066	.018	.118	.045	27
	45025	Ritson Rd./Olive Ave. Oshawa	362	.003	.012	.019	.026	.039	.083	.022	.158	.058	101
	46110	Queensway W./Huron-tario St., Mississauga	336	.000	.006	.014	.021	.035	.070	.017	.153	.062	38
	47035	M. of A., 509 Victoria St. E. Alliston	96	.001	.014	.025	.034	.049	.068	.026	.087	.052	3
	48002	MTC Yard #9 Hwy. 47, Stouffville	327	.006	.014	.018	.023	.036	.065	.021	.120	.056	13
	49010	Hwy. 117/Paint Lake Rd. Dorset	345	.011	.021	.026	.031	.042	.070	.027	.101	.054	20
SOUTH EAST	51001	McDonald Gardens, Rideau/ Wurtemburg St., Ottawa	362	.001	.009	.016	.022	.033	.061	.018	.104	.059	14
	56051	Memorial Park York/Third St., Cornwall	363	.004	.014	.020	.027	.042	.073	.023	.106	.072	47
NORTH WEST	63040	435 James St. S. Thunder Bay	362	.000	.007	.014	.019	.026	.044	.014	.071	.047	0
	63100	Hawkeye Lake	136	.004	.006	.009	.016	.027	.045	.013	.079	.038	0
NORTH EAST	71057	Michipicoten Ave. Lot 38, Town of Mission	63	.000	.011	.022	.031	.048	.074	.023	.084	.056	4
	71066	Farwell Pumphouse Sault Ste. Marie	273	.004	.013	.021	.029	.041	.064	.023	.087	.065	11
	77016	Ash Street Water Tank Sudbury	310	.002	.009	.012	.017	.025	.050	.014	.070	.047	0

Table 11 — Summary of Data: Total Reduced Sulphur (all values in p.p.b.)

No Existing Criteria

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1-HR	24-HR
SOUTH WEST	12032	Morton Dock, Bedford/ Ojibway, Windsor	336	0.0	0.0	0.0	0.0	0.4	7.4	0.4	27	9
	14062	242 Indian Rd. S. Sarnia	350	0.0	0.0	0.0	0.0	0.3	3.8	0.3	25	5
	18007	Concession Rd. 2. Lot A, Tiverton	325	0.0	0.0	0.0	0.0	0.0	2.7	0.1	6	4
WEST CENTRAL	22903	Cheapside Rd./Walpole Conc. 5 Nanticoke	341	0.0	0.0	0.0	0.3	1.0	3.2	0.5	10	3
	22904	Walpole South P.S. Sandusk Rd., Nanticoke	317	0.0	0.0	0.0	0.0	0.0	2.0	0.1	17	2
	22905	Nanticoke Rd./Walpole Conc. 5 Nanticoke	302	0.0	0.0	0.0	0.0	0.0	2.0	0.1	6	2
	22907	WNWO3 Nanticoke Village	306	0.0	0.0	0.2	0.8	2.0	5.9	1.0	90	8
	27051	Holy Trinity Church Norton/Portage, Chippawa	100	0.0	0.0	0.0	0.0	0.0	2.7	0.1	78	9
	27052	185 Queen St. S. Thorold	130	0.0	0.0	0.0	2.0	21.7	59.9	5.8	137	41
	27055	Stanley Av. Niagara Falls	131	0.0	0.0	0.0	0.0	2.6	9.9	0.8	22	5
	29008	North Park Hamilton	307	0.0	0.0	0.0	0.9	2.9	10.4	1.2	30	9
	29025	Barton/Wentworth Hamilton	340	0.0	0.0	0.0	0.8	3.7	12.9	1.4	48	9
CENTRAL	44015	Bronte Rd./Woburn Cres. Oakville	349	0.0	0.0	0.0	0.0	3.8	13.8	1.2	199	18
SOUTH EAST	56051	Memorial Park York/Third St., Cornwall	332	0.0	0.0	0.9	3.1	8.2	27.2	3.4	92	16
	56068	435 Second St. W. Cornwall	360	0.0	0.0	0.5	2.0	6.4	26.5	2.7	102	16
NORTH WEST	61026	56 King St. Dryden	257	0.0	0.0	0.0	0.0	3.2	28.2	1.5	121	20
	62032	Cemetery, Colonization Rd. W., Fort Frances	309	0.0	0.0	0.0	0.0	8.2	37.8	2.8	87	27
	62051	Boise Cascade Victoria Ave., Fort Frances	349	0.0	0.0	0.0	1.1	11.6	60.4	4.3	161	60
	62052	263 Church St. Fort Frances	336	0.0	0.0	0.0	0.9	14.5	64.3	4.9	254	70
	63034	Peninsula Bldg. Marathon	310	0.0	0.0	0.0	0.0	2.3	16.8	0.9	72	10
	63046	Can-Car Bldg. Montreal St., Thunder Bay	305	0.0	0.0	0.0	0.0	0.1	9.3	0.5	36	7
	63084	Recreation Centre Red Rock	300	0.0	0.0	0.0	0.0	4.0	30.9	1.8	156	32
	63090	St. Martin School Terrace Bay	333	0.0	0.0	0.0	0.0	2.3	16.1	0.9	102	13
NORTH EAST	77029	Post Office Spruce/Barber St., Espanola	154	0.0	0.0	0.3	3.0	7.2	26.5	3.1	107	17

Table 12 — Summary of Data: Nitrogen Dioxide (all values in p.p.m.)

Ontario Criteria — 1 Hour Average: 0.20 p.p.m. 24 Hour Average: 0.10 p.p.m.

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1-HR	24-HR	NO. OF TIMES ABOVE CRITERIA 1-HR	24-HR
SOUTH WEST	12008	467 University Ave. W. Windsor	333	.004	.013	.019	.027	.038	.066	.026	.12	.07	NIL	NIL
	14064	Centennial Park Front St./CN Tracks, Sarnia	359	.000	.006	.013	.020	.034	.054	.020	.17	.06	NIL	NIL
	15001	Western Fair Grounds King/Rectory, London	347	.002	.009	.015	.022	.032	.048	.021	.12	.05	NIL	NIL
WEST CENTRAL	22071	Experimental Farm Simcoe	334	.000	.000	.003	.007	.016	.035	.009	.08	.04	NIL	NIL
	22086	Cheapside Rd., 3 km S of Hwy. 3, Nanticoke	350	.000	.000	.002	.006	.012	.026	.008	.05	.03	NIL	NIL
	22901	100 m S. Hwy 59 Long Point Prov. Park	288	.000	.000	.000	.005	.009	.025	.006	.04	.03	NIL	NIL
	22902	Tyneside/Chippewa Rd. Binbrook West	326	.000	.000	.004	.008	.017	.036	.010	.06	.04	NIL	NIL

Table 12 — *Continued...*

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1-HR	24-HR	NO. OF TIMES ABOVE CRITERIA 1-HR	24-HR
WEST CENTRAL	22906	Sandusk Rd., Btwn Walpole Conc. 4/5, Sandusk	229	.000	.000	.003	.008	.017	.030	.009	.06	.03	NIL	NIL
	26029	Edna/Frederick St. Kitchener	297	.001	.011	.020	.028	.038	.059	.025	.11	.07	NIL	NIL
	27037	North/Geneva St. St. Catharines	348	.000	.006	.013	.019	.036	.056	.020	.08	.05	NIL	NIL
	29008	North Park Hamilton	349	.000	.010	.020	.028	.045	.079	.026	.14	.07	NIL	NIL
	29025	Barton/Wentworth Hamilton	362	.006	.016	.023	.030	.042	.066	.029	.10	.08	NIL	NIL
CENTRAL	31049	Mission, 381 Yonge St. Toronto	201	.015	.025	.033	.041	.057	.091	.040	.16	.09	NIL	NIL
	31104	26 Breadalbane Toronto	356	.003	.012	.018	.025	.038	.064	.025	.15	.07	NIL	NIL
	31105	Sherbourne/Wilton St. Toronto	361	.009	.017	.024	.030	.044	.069	.030	.10	.07	NIL	NIL
	31120	Junction Triangle Perth Ave., Toronto	340	.003	.012	.019	.027	.040	.065	.026	.18	.07	NIL	NIL
	33003	Lawrence/Kennedy Scarborough	363	.000	.004	.011	.019	.034	.067	.019	.13	.07	NIL	NIL
	34002	Science Centre 770 Don Mills Rd., North York	350	.003	.011	.017	.024	.035	.057	.023	.15	.06	NIL	NIL
	34007	Bathurst/Wilson North York	351	.000	.008	.018	.029	.049	.089	.027	.15	.10	NIL	NIL
	35003	Elmcrest Rd. Etobicoke	206	.002	.009	.015	.021	.030	.049	.021	.08	.04	NIL	NIL
	35033	Evans/Arnold Ave. Etobicoke	347	.008	.017	.024	.030	.044	.074	.030	.18	.09	NIL	NIL
	44008	Hwy. 2/North Shore Blvd. E. Burlington	321	.004	.012	.018	.026	.039	.073	.026	.14	.09	NIL	NIL
	44015	Bronte Rd./Woburn Cres. Oakville	357	.000	.004	.009	.016	.026	.044	.016	.10	.05	NIL	NIL
	45025	Ritson Rd./Olive Ave. Oshawa	360	.000	.005	.012	.020	.033	.057	.019	.10	.05	NIL	NIL
	46110	Queensway West/Huron-tario St., Mississauga	320	.005	.014	.020	.027	.038	.064	.026	.11	.06	NIL	NIL
	48002	Trailer MTC Yard #9 Hwy. 47, Stouffville	137	.000	.000	.004	.008	.018	.041	.010	.07	.05	NIL	NIL
SOUTH EAST	51001	McDonald Garden Rideau/Wurtemburg St., Ottawa	365	.000	.002	.007	.013	.025	.045	.014	.10	.04	NIL	NIL
	56051	Memorial Park York/Third St., Cornwall	360	.000	.000	.004	.009	.020	.046	.011	.10	.06	NIL	NIL
NORTH WEST	63100	Hawkeye Lake	109	.000	.000	.000	.000	.000	.007	.000	.01	.01	NIL	NIL
NORTH EAST	71066	Farwell Pumphouse Sault Ste. Marie	129	.000	.004	.008	.013	.021	.037	.014	.060	.030	NIL	NIL
	77016	Ash Street Water Tank Sudbury	292	.000	.000	.000	.004	.012	.029	.006	.060	.030	NIL	NIL

Table 13 **Summary of Data: Nitric Oxide (all values in p.p.m.)**
No Existing Criteria

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1-HR	24-HR
SOUTH WEST	12008	467 University Ave. W. Windsor	334	.000	.000	.004	.011	.034	.130	.016	.38	.12
	14064	Centennial Park Front St./CN Tracks, Sarnia	347	.000	.000	.000	.006	.018	.076	.010	.48	.12
	15001	Western Fair Grounds King/Rectory, London	345	.000	.000	.000	.008	.029	.135	.014	.56	.17
WEST CENTRAL	22071	Experimental Farm Simcoe	312	.000	.000	.000	.000	.005	.019	.002	.08	.03
	22086	Cheapside Rd., 3 km S of Hwy. 3, Nanticoke	350	.000	.000	.000	.000	.000	.010	.001	.06	.02
	22901	100 m S. Hwy. 59 Long Point Prov. Park	327	.000	.000	.000	.000	.001	.010	.001	.08	.02
	22902	Tyneside/Chippewa Rd. Binbrook West	359	.000	.000	.000	.003	.009	.038	.005	.13	.05

Table 13 — *Continued...*

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1-HR	24-HR
WEST CENTRAL CONT'D	22906	Sandusk Rd., Btwn Walpole Conc. 4/5, Sandusk	234	.000	.000	.000	.001	.008	.026	.004	.08	.02
	26029	Edna/Frederick St. Kitchener	307	.000	.002	.009	.034	.123	.354	.045	.94	.35
	27037	North/Geneva St. St. Catharines	356	.000	.000	.000	.000	.020	.125	.009	.37	.12
	29008	North Park Hamilton	347	.000	.000	.026	.073	.148	.287	.057	.53	.21
	29025	Barton/Wentworth Hamilton	364	.000	.000	.001	.010	.046	.161	.018	.45	.17
CENTRAL	31049	Mission, 381 Yonge St. Toronto	201	.012	.027	.048	.085	.165	.321	.077	.70	.18
	31104	26 Breadalbane Toronto	356	.000	.000	.005	.014	.043	.140	.019	.35	.14
	31105	Sherbourne/Wilton St. Toronto	360	.000	.000	.009	.029	.085	.242	.033	.68	.22
	31120	Junction Triangle Perth Ave., Toronto	347	.000	.000	.002	.012	.051	.213	.021	.70	.22
	33003	Lawrence/Kennedy Scarborough	364	.000	.000	.009	.025	.067	.224	.028	.83	.22
	34002	Science Centre 770 Don Mills Rd., North York	359	.000	.003	.008	.019	.073	.251	.030	.52	.26
	34007	Bathurst/Wilson North York	353	.000	.003	.034	.108	.230	.436	.084	.77	.37
	35003	Elmcrest Rd. Etobicoke	328	.000	.000	.005	.015	.070	.248	.026	.71	.19
	35033	Evans/Arnold Ave. Etobicoke	361	.000	.003	.020	.050	.128	.380	.052	.73	.26
	44008	Hwy. 2/North Shore Blvd. E. Burlington	349	.000	.000	.005	.013	.047	.219	.022	.85	.24
	44015	Bronte Rd./Woburn Cres. Oakville	357	.000	.000	.000	.002	.034	.134	.012	.54	.10
	45025	Ritson Rd./Olive Ave. Oshawa	361	.000	.000	.000	.006	.031	.157	.013	.45	.14
	46110	Queensway West/Huron-tario St., Mississauga	352	.000	.000	.005	.017	.070	.230	.027	.93	.18
	48002	Trailer/MTC Yard #9 Hwy. 47, Stouffville	157	.000	.000	.000	.004	.025	.058	.008	.15	.06
	49010	Hwy. 117/Paint Lake Rd. Dorset	258	.000	.000	.000	.000	.000	.020	.001	.04	.03
SOUTH EAST	51001	McDonald Garden Rideau/Wurtemburg St., Ottawa	340	.000	.000	.000	.001	.024	.110	.009	.34	.09
	56051	Memorial Park York/Third St., Cornwall	339	.000	.000	.000	.000	.015	.162	.008	.48	.26
NORTH WEST	63100	Hawkeye Lake	112	.000	.000	.000	.000	.000	.036	.001	.06	.03
NORTH EAST	71066	Farwell Pumphouse Sault Ste. Marie	122	.000	.000	.004	.010	.020	.052	.011	.13	.03
	77016	Ash Street Water Tank Sudbury	332	.000	.000	.000	.000	.008	.059	.005	.39	.12

Table 14 **Summary of Data: Nitrogen Oxides (all values in p.p.m.)**
No Existing Criteria

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1-HR	24-HR
SOUTH WEST	12008	467 University Ave. W. Windsor	332	.006	.018	.028	.042	.072	.172	.041	.47	.19
	14064	Centennial Park Front St./CN Tracks, Sarnia	347	.000	.008	.019	.031	.053	.115	.029	.52	.15
	15001	Western Fair Grounds King/Rectory, London	345	.003	.011	.020	.034	.063	.172	.035	.61	.21
WEST CENTRAL	22071	Experimental Farm Simcoe	300	.000	.000	.004	.009	.021	.050	.011	.12	.04
	22086	Cheapside Rd., 3 km S of Hwy. 3, Nanticoke	350	.000	.000	.002	.007	.014	.036	.008	.09	.04
	22901	100 m S. Hwy. 59 Long Point Prov. Park	288	.000	.000	.001	.006	.012	.034	.007	.11	.05

Table 14 — *Continued...*

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1-HR	24-HR
WEST CENTRAL	22902	Tyneside/Chippawa Rd. Binbrook West	326	.000	.002	.007	.014	.027	.076	.015	.17	.08
	22906	Sandusk Rd., Btwn Walpole Conc. 4/5, Sandusk	226	.000	.000	.006	.012	.025	.055	.013	.12	.05
	26029	Edna/Frederick St. Kitchener	266	.006	.019	.036	.070	.166	.403	.072	1.01	.40
	27037	North/Geneva St. St. Catharines	346	.000	.007	.015	.028	.055	.160	.029	.43	.16
	29008	North Park Hamilton	347	.000	.015	.058	.112	.187	.329	.083	.59	.28
	29025	Barton/Wentworth Hamilton	361	.006	.019	.031	.047	.088	.213	.047	.53	.25
CENTRAL	31049	Mission, 381 Yonge St., Toronto	201	.038	.062	.088	.128	.221	.383	.117	.82	.38
	31104	26 Breadalbane Toronto	356	.005	.017	.028	.044	.080	.197	.044	.43	.21
	31105	Sherbourne/Wilton St. Toronto	364	.009	.024	.042	.066	.122	.286	.062	.74	.27
	31120	Junction Triangle Perth Ave., Toronto	334	.004	.015	.027	.045	.091	.268	.047	.80	.30
	33003	Lawrence/Kennedy Scarborough	362	.000	.009	.027	.049	.100	.269	.047	.90	.26
	34002	Science Centre 770 Don Mills Rd., North York	348	.010	.020	.031	.048	.108	.295	.053	.61	.30
	34007	Bathurst/Wilson North York	349	.000	.018	.061	.144	.263	.466	.108	.79	.41
	35003	Elmcrest Rd. Etobicoke	188	.004	.013	.024	.039	.100	.282	.046	.61	.23
	35033	Evans/Arnold Ave. Etobicoke	345	.011	.029	.052	.084	.167	.434	.082	.91	.33
	44008	Hwy. 2/North Shore Blvd. E. Burlington	309	.007	.018	.028	.042	.081	.226	.045	.93	.32
	44015	Bronte Rd./Woburn Cres. Oakville	358	.000	.004	.011	.024	.062	.167	.028	.57	.14
	45025	Ritson Rd./Olive Ave. Oshawa	356	.000	.006	.016	.031	.068	.197	.033	.49	.19
	46110	Queensway West/Huron-tario St., Mississauga	320	.008	.020	.032	.050	.110	.285	.054	.95	.23
	48002	Trailer/MTC Yard #9 Hwy. 47, Stouffville	137	.000	.002	.006	.011	.025	.093	.015	.19	.08
	49010	Hwy. 117/Paint Lake Rd. Dorset	45	.000	.000	.000	.000	.006	.010	.002	.02	.01
SOUTH EAST	51001	McDonald Garden Rideau/Wurtemburg St., Ottawa	340	.000	.002	.008	.019	.049	151	.023	.39	.13
	56051	Memorial Park York/Third St., Cornwall	338	.000	.000	.005	.013	.039	.184	.019	.53	.27
NORTH WEST	63100	Hawkeye Lake	109	.000	.000	.000	.000	.000	.037	.001	.06	.03
NORTH EAST	71066	Farwell Pumphouse Sault Ste. Marie	122	.001	.009	.016	.026	.044	.086	.025	.17	.06
	77016	Ash Street Water Tank Sudbury	274	.000	.000	.000	.007	.020	.076	.010	.29	.05

Table 15 **Summary of Data: Soiling Index — 1 Hour (all values are in COH's/1,000ft.)**

Ontario Criteria — 24-Hour Average — 1.0 COH's/1,000 ft. 1 Year Average — 0.5-COH's/1,000 ft

INS — Indicates insufficient sample size to apply 1 year average criterion

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1-HR	24-HR	NO. OF TIMES ABOVE CRITERIA 1-HR	24-HR
SOUTH WEST	12008	467 University Ave. W. Windsor	361	.09	.22	.33	.50	.86	1.68	.47	3.6	1.3	12	NIL
	12016	College/South St. Windsor	365	.05	.19	.29	.46	.80	1.70	.43	4.0	1.7	6	NIL
	12108	467 University Ave. Windsor, API Backup	361	.06	.22	.34	.51	.89	1.70	.48	4.2	1.4	12	NIL
	12116	College/Prince Windsor, Backup	364	.02	.18	.29	.45	.80	1.74	.43	4.1	1.7	7	NIL
	14064	Centennial Park Front St./CN Tracks, Sarnia	363	.00	.07	.19	.30	.55	1.08	.27	3.5	1.0	0	NIL

Table 15 — *Continued...*

REGION	STATION NUMBER	LOCATION	NO. OF DAYS	PERCENTILES 10	30	50	70	90	99	ARITH-METIC MEAN	MAXIMUM 1-HR	24-HR	NO. OF TIMES ABOVE CRITERIA 1-HR	24-HR
SOUTH WEST	14164	Centennial Park Sarnia, Backup	364	.00	.00	.15	.26	.50	1.01	.24	3.4	1.0	0	NIL
	15001	Western Fair Grounds King/Rectory, London	359	.00	.11	.21	.33	.59	1.26	.31	3.2	1.4	2	NIL
	15009	Conservation Authority Longwoods	62	.00	.04	.10	.18	.35	.68	.19	0.9	0.6	0	INS
WEST CENTRAL	22071	Experimental Farm Simcoe	350	.00	.00	.10	.19	.33	.67	.16	1.7	0.9	0	NIL
	27037	North/Geneva St. St. Catharines	360	.00	.03	.17	.29	.57	1.21	.27	3.0	1.4	2	NIL
	27049	Murray/Buchanan Ave. Niagara Falls	81	.00	.02	.15	.25	.50	.93	.24	1.5	0.7	0	INS
	27052	185 Queen St. S. Thorold	11	.12	.28	.40	.55	.85	1.24	.50	1.5	0.8	0	INS
	27056	Allendale Ave. Niagara Falls	278	.00	.00	.10	.18	.32	.67	.16	2.0	0.6	0	NIL
	27137	North/Geneva St. St. Catharines API Backup	360	.00	.12	.22	.35	.63	1.32	.32	2.9	1.6	2	NIL
	27149	Murray/Buchanan Ave. Niagara Falls API Backup	81	.00	.03	.16	.27	.50	.94	.25	1.6	0.8	0	INS
	27156	Allendale Ave. Niagara Falls Backup	278	.00	.00	.12	.20	.35	.69	.18	2.0	0.6	0	NIL
	29008	North Park Hamilton	356	.00	.19	.39	.68	1.14	1.95	.54	3.7	1.6	34	1
	29025	Barton/Wentworth Hamilton	364	.00	.18	.30	.49	.88	1.62	.44	2.8	1.8	13	NIL
	29125	Barton/Wentworth Hamilton API Backup	362	.00	.20	.32	.52	.92	1.68	.47	2.9	1.9	15	NIL
CENTRAL	31103	26 Breadalbane Toronto Backup	360	.00	.17	.29	.43	.74	1.42	.40	2.4	1.4	6	NIL
	31104	26 Breadalbane Toronto	360	.06	.18	.29	.44	.76	1.44	.41	2.3	1.4	8	NIL
	31105	Sherbourne/Wilton St. Toronto	359	.10	.23	.36	.56	.95	1.78	.51	4.1	1.4	13	1
	31120	Junction Triangle Perth Ave., Toronto	327	.06	.18	.28	.41	.77	1.66	.42	3.5	1.6	9	NIL
	33003	Lawrence/Kennedy Scarborough	362	.00	.12	.21	.33	.63	1.36	.32	3.1	1.2	3	NIL
	34007	Bathurst/Wilson North York	361	.00	.19	.38	.68	1.24	2.05	.57	3.0	1.9	39	1
	35033	Evans/Arnold Ave. Etobicoke	357	.00	.13	.25	.41	.77	1.53	.37	3.1	1.2	9	NIL
	44015	Bronte Rd./Woburn Cres. Oakville	363	.00	.13	.23	.38	.73	1.44	.35	3.7	1.3	8	NIL
	45025	Ritson Rd./Olive Ave. Oshawa	359	.00	.09	.21	.35	.68	1.62	.33	3.8	1.4	7	NIL
SOUTH EAST	51001	McDonald Garden Rideau/Wurtemburg St. Ottawa	344	.00	.00	.11	.20	.37	.86	.18	2.7	0.9	0	NIL
	56051	Memorial Park York/Third St., Cornwall	362	.00	.00	.11	.20	.38	.87	.18	2.3	0.9	0	NIL
NORTH EAST	77016	Ash Street Water Tank Sudbury	359	.00	.00	.00	.13	.30	.81	.12	2.7	0.8	0	NIL
	77028	Government/Edward St. Coniston	361	.00	.00	.00	.11	.30	.95	.12	2.2	0.9	0	NIL
	77075	Kennedy St. New Sudbury	357	.00	.00	.01	.15	.33	1.02	.15	2.4	1.2	1	NIL
	77116	Water Tower, Ash St. Sudbury, API Backup	346	.00	.00	.00	.14	.31	.81	.13	2.7	0.9	0	NIL
	77128	Government/Edward St. Coniston API Backup	327	.00	.00	.00	.09	.27	.80	.11	2.2	0.7	0	NIL
	77175	Kenedy St. New Sudbury	313	.00	.00	.00	.14	.30	.97	.13	2.7	1.3	1	NIL

Table 16 **Summary of Data: Total Suspended Particulate Matter (all values in micrograms per cubic meter)**

Ontario Criteria — 24 hour average: 120 ug/m³; annual geometric mean: 60 ug/m³
INS — Indicates insufficient sample size to apply annual criterion.

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR	1-YR
SOUTH WEST	10015	PUC Bldg. 64 West St., Goderich	57	21	31	42	55	80	105	107	46	40	NIL	NIL
	11001	35 Thomas St. St. Marys	59	21	33	40	63	109	161	180	56	47	4	NIL
	12002	City Hall 44 Windsor Ave., Windsor	54	33	47	56	64	86	127	134	58	53	2	NIL

Table 16 — *Continued...*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR	1-YR
SOUTH WEST	12005	7730 Riverside Dr. W. Windsor	53	20	30	36	47	70	110	113	41	36	NIL	NIL
	12006	Beach Lane, Hwy. 18 LaSalle	52	21	40	49	63	107	150	162	59	49	3	NIL
	12008	467 University Ave. W. Windsor	328	30	43	55	67	90	130	149	58	53	7	NIL
	12009	9725 Riverside Dr. E Little River	55	21	28	35	44	79	96	98	41	36	NIL	NIL
	12010	Tecumseh Sewage Stn. Manning Rd., Windsor	56	16	25	33	40	63	95	110	35	31	NIL	NIL
	12013	Filtration Plant, 3665 Wyandotte St. E., Windsor	56	33	45	61	95	141	217	221	77	95	9	1
	12015	Sewage Plant Hwy 18/Prospect, Windsor	58	29	48	64	79	109	151	188	66	58	2	NIL
	12016	College/South St. Windsor	74	27	41	51	61	92	134	147	56	50	2	NIL
	12032	Morton Dock Bedford/Ojibway, Windsor	57	36	52	64	72	102	180	249	68	62	4	1
	12036	1802 George St. Windsor	54	25	39	47	61	96	120	120	55	49	NIL	NIL
	12037	3225 California St. Windsor	57	23	34	39	52	73	106	109	46	42	NIL	NIL
	12039	Dougall E.C. Rowe W. Windsor	58	25	39	50	63	90	123	142	55	49	1	NIL
	12053	415 Front St. Amherstburg	49	16	30	43	56	75	162	165	48	39	2	NIL
	13003	Post Office 10 Center St., Chatham	55	29	39	43	55	75	111	117	49	45	NIL	NIL
	14001	General Hospital 220 Mitton St., Sarnia	57	22	30	38	51	74	104	117	44	39	NIL	NIL
	14016	Opposite Lambton GS Hwy. 40, Courtright	340	18	25	34	44	66	112	159	38	33	2	NIL
	14030	R.R. #1, West of the House, Corunna	57	16	24	32	41	61	86	98	36	31	NIL	NIL
	14031	R.R. #1, West Side of Barn, Mooretown	55	16	26	31	50	104	140	140	47	37	4	NIL
	14054	Sarnia Yacht Club Port Edward, Sarnia	57	25	37	47	64	93	120	127	53	46	1	NIL
	14059	St. Clair Blvd/Hwy 40 Corunna	55	20	28	37	53	96	156	255	49	40	1	NIL
	14062	242 Indian Rd. S. Sarnia	57	24	37	43	56	81	120	129	49	44	1	NIL
	14064	Centennial Park Front St./CN Tracks, Sarnia	57	35	48	60	76	104	126	131	65	59	2	NIL
	14151	St. Clair River David/Front St., Sarnia	57	26	40	58	89	119	197	217	69	57	6	NIL
	15001	Western Fair Grounds King/Rectory, London	58	25	36	52	70	100	143	160	60	52	2	NIL
	15003	362 Dundas St. London	56	21	30	43	52	73	86	88	43	39	NIL	NIL
	15006	16 Alexandria St. St. Thomas	58	27	41	52	75	125	222	227	70	59	6	NIL
	15007	Fern Ford, 1012 Talbot St. St. Thomas	58	32	42	51	63	89	123	134	56	51	1	NIL
	15008	Edgeware Rd., NNW of Varta Plant, St. Thomas	54	17	25	40	51	90	111	120	44	36	NIL	NIL
	15009	Conservation Authority Longwoods	17	19	22	27	39	60	99	106	37	32	NIL	INS
	17006	St. Anthony's SS Hwy. 2, Beachville	53	28	45	56	82	125	143	146	67	58	7	NIL
	17020	Spriel, Hwy. 2 RR #2, Ingersoll	55	30	48	61	78	119	202	273	71	63	5	1
	17021	Hesston Farm Supp. Oxford City Rd. 6 Zorra	66	34	46	63	81	110	137	148	67	60	4	NIL
WEST CENTRAL	22031	Selkirk	52	16	29	35	44	61	85	106	38	34	NIL	NIL
	22056	Port Dover	30	16	25	29	36	55	68	71	33	29	NIL	INS
	22069	Sandusk	57	20	26	39	56	89	156	164	49	40	3	INS
	22071	Experimental Farm Simcoe	55	14	24	32	44	69	86	92	37	32	NIL	NIL
	22086	Cheapside Rd., 3 km S. of Hwy 3, Nanticoke	56	18	27	40	52	84	217	331	50	39	3	INS
	22087	Jarvis Community Centre James Street, Jarvis	57	23	33	43	61	103	133	135	54	46	NIL	NIL
	22090	St. George/Alma Port Dover	25	14	23	32	37	48	60	63	32	29	NIL	NIL
	22902	Tyneside/Chippawa Rd. Binbrook West	53	27	33	42	56	69	93	103	46	43	NIL	NIL
	22904	Walpole South PS Sandusk Rd., Nanticoke	56	17	25	32	45	59	96	134	37	33	1	NIL
	22951	Walpole Con. 11/ Sandusk Rd., Hagersville	58	18	24	31	46	65	95	101	38	33	NIL	NIL

Table 16 — *Continued...*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR	1-YR
	22952	100 M SE Lakeshore Rd. Peacock Prov. Park	55	15	21	29	37	51	63	75	31	28	NIL	NIL
	22953	Waterford Conc. 2/ E. Quarterline Dogs Nest	110	14	20	28	41	54	100	106	33	28	NIL	NIL
	22954	E. Quart. Line/ Waterford Conc. 13 Villa Nova	58	16	22	31	39	76	98	116	37	31	NIL	NIL
	22955	Hald-Norf Rd. 8/ Cayuga Conc. 2 Rainham Centre	58	15	26	31	40	54	73	76	34	30	NIL	NIL
	22956	Hald-Norf Rd. 17/H-N Rd. 32 Canfield South	55	23	31	42	48	65	75	76	42	39	NIL	NIL
	22957	Fisherville/Indian Line Rd. Fisherville	58	17	25	36	46	74	92	96	39	34	NIL	NIL
	22958	H-N Rd. 63/5 Km E H-N Rd. 14 Canborough East	46	16	27	39	48	62	95	97	41	36	NIL	NIL
	22959	Hwy. 59 Big Creek Wildlife Reserve	51	17	26	34	45	56	66	66	35	32	NIL	NIL
	22960	McKenzie Rd./H-N Rd. NN Dufferin North	52	22	30	38	49	70	92	113	43	38	NIL	NIL
	22961	Nanticoke Rd. Walpole Con. 2, Nanticoke North	111	20	26	36	61	93	132	176	49	40	3	NIL
	22963	NNW 6 Stelco North	119	15	21	31	53	78	132	379	43	34	2	NIL
	26029	Edna/Frederick St. Kitchener	55	28	37	52	65	98	216	224	61	51	3	NIL
	27008	71 King St. St. Catharines	56	34	47	59	71	97	115	117	61	57	NIL	NIL
	27009	Norton/Portage Chippawa	56	38	56	69	89	137	194	199	79	70	8	1
	27014	Stanley/Chippawa Pkwy. Chippawa	49	28	34	46	61	74	161	174	52	46	2	NIL
	27030	Killaly E. James Port Colborne	54	22	35	41	52	73	111	123	47	42	1	NIL
	27037	North/Geneva St. St. Catharines	57	44	51	66	77	115	189	224	75	68	5	1
	27045	337 Alberta at Devon St., Welland	55	27	38	48	61	88	133	145	54	49	3	NIL
	27047	Davis/Frazer Port Colborne	58	27	42	52	68	100	118	123	58	51	1	NIL
	27049	Murray/Buchanan Ave. Niagara Falls	12	44	52	61	71	76	132	141	66	62	1	INS
	27052	185 Queen St. S. Thorold	55	58	81	113	139	221	304	353	126	111	25	1
	27053	First Ave./Bridge St. Niagara Falls	57	40	60	76	91	118	205	222	80	73	5	1
	27055	STP Grounds Stanley Ave., Niagara Falls	54	35	52	64	95	135	291	305	82	68	9	1
	27056	Allendale Ave. Niagara Falls	37	24	30	48	57	69	87	88	47	43	NIL	INS
	28024	95 Inkerman St. Guelph	30	15	32	37	47	90	163	194	47	35	1	INS
	28025	Farquhar/Wyndham St. Guelph	56	19	28	36	45	70	88	92	40	35	NIL	NIL
	28027	Hanion Expwy/ Speed River, Guelph	50	25	47	61	94	121	192	206	71	60	5	NIL
	29001	Hughson/Hunter Hamilton	55	33	48	64	80	125	183	188	72	64	7	1
	29007	City Hall Hamilton	27	36	48	68	91	137	199	211	79	68	4	1
	29008	North Park Hamilton	337	33	55	74	103	158	238	298	87	73	75	1
	29009	Kenilworth Hamilton	56	33	43	57	74	93	158	229	62	55	1	NIL
	29011	Burlington/Leeds Hamilton	54	52	69	94	121	189	233	254	106	95	17	1
	29012	Burlington/Wellington Hamilton	52	40	57	72	82	131	186	195	78	68	9	1
	29017	Chatham/Frid Hamilton	56	47	63	76	97	146	210	214	88	80	10	1
	29025	Barton/Wentworth Hamilton	328	42	58	74	97	141	226	282	85	75	56	1
	29067	450 Hughson St. N. Hamilton	56	27	36	47	57	95	125	127	53	47	2	NIL
	29085	Upper Wellington/ Inverness, Hamilton	57	30	39	52	72	98	176	183	60	53	2	1
	29087	405 Cumberland Ave. Hamilton	57	35	49	60	77	109	155	191	67	61	4	1
	29089	Barton/Nash Hamilton	47	33	42	52	77	108	131	149	63	57	1	NIL
	29090	Westdale Library Hamilton	53	32	42	52	64	89	129	131	57	50	2	NIL

Table 16 — *Continued...*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR	1-YR
	29098	Bay/Main St. Hamilton	30	33	50	58	79	98	143	145	65	59	2	INS
CENTRAL	31058	Mosley/Leslie St. Toronto	350	35	55	69	94	133	256	311	81	70	53	1
	31064	17 Berkshire Ave. Toronto	249	29	42	54	71	112	160	182	62	55	20	INS
	31079	Fire Hall 1285 Dufferin St., Toronto	340	29	39	49	62	91	149	164	56	50	13	NIL
	31082	Works Dept. 138 Hamilton Ave., Toronto	349	32	44	58	75	121	199	308	68	59	36	NIL
	31084	Maydwell Mfg. 65 Saulter St., Toronto	345	35	50	63	81	123	201	216	72	63	38	1
	31085	Tecumseth/Niagara St. Toronto	344	41	57	70	87	123	210	235	78	70	37	1
	31103	26 Breadalbane Toronto Backup	39	23	36	47	55	75	127	139	50	44	1	INS
	31104	26 Breadalbane Toronto	355	32	42	53	65	99	162	175	60	54	17	NIL
	31105	Sherbourne/Wilton St. Toronto	116	41	57	73	96	135	173	190	80	73	18	1
	31120	Junction Triangle Perth Ave., Toronto	108	23	34	42	53	83	135	199	48	41	3	NIL
	31123	26 Breadalbane Toronto	38	28	37	41	57	81	130	147	50	46	1	INS
	31124	26 Breadalbane Toronto	38	22	30	35	44	67	165	189	45	38	2	INS
	31181	60 Bathurst St. Toronto	156	29	43	56	77	108	178	206	64	55	9	NIL
	33003	Lawrence/Kennedy Scarborough	116	27	41	51	61	97	151	161	57	51	5	NIL
	33019	Met. Branch, Scarborough Bluffs, Scarborough	112	19	28	36	46	67	87	95	40	35	NIL	NIL
	34002	Science Centre 770 Don Mills Rd., North York	117	19	30	38	49	78	113	119	43	38	NIL	NIL
	34007	Bathurst/Wilson North York	103	21	35	47	64	86	123	144	52	45	2	NIL
	35003	Elmcrest Rd. Etobicoke	115	21	34	44	61	95	150	162	52	44	5	NIL
	35005	Queensway Hospital Etobicoke	120	30	39	50	62	93	124	219	55	49	3	NIL
	35033	Evans/Arnold Ave. Etobicoke	111	32	43	50	64	93	157	179	58	53	4	NIL
	35037	3050 Lakeshore Blvd. W. Etobicoke	333	29	44	56	68	100	164	222	61	54	15	NIL
	35050	MOE Lab Resources Rd., Etobicoke	113	21	31	39	49	76	104	107	42	38	NIL	NIL
	35051	Radiation Lab. Resources Rd., Etobicoke	327	22	34	42	56	80	123	129	48	42	4	NIL
	44008	Hwy. 2/North Shore Blvd. E. Burlington	112	21	34	48	74	111	226	232	62	49	10	NIL
	44015	Bronte Rd./Woburn Cres. Oakville	117	20	28	37	54	82	128	143	46	40	3	NIL
	45001	Pickering Fire Hall Pickering	318	20	30	42	55	88	179	225	50	41	11	NIL
	45003	McDonald PS Pickering	316	20	30	40	52	77	144	196	48	39	8	NIL
	45005	Frenchman's Bay Sewage Pickering	300	17	26	33	44	68	112	258	39	34	3	NIL
	45006	Lakeshore Park Sewage Pickering	331	17	23	31	43	64	104	145	37	32	2	NIL
	45007	Ajax-Pickering Hospital Pickering	325	17	27	36	48	76	125	151	42	36	5	NIL
	45008	Duffering Creek Sewage Plant Pickering	331	18	26	33	44	63	106	170	38	33	2	NIL
	45011	Public Library Oshawa	119	26	33	41	51	74	111	150	46	42	1	NIL
	45025	Ritson Rd./Olive Ave. Oshawa	118	27	36	46	62	92	143	173	54	48	4	NIL
	45060	Lasco Hopkins St. S. Whitby	87	21	34	50	62	104	150	166	56	46	7	INS
	46025	Mississauga Public Library Mississauga	55	31	49	64	81	125	163	186	70	60	8	NIL
	46033	Bramalea Fire Hall Bramalea	56	32	48	68	85	135	220	227	76	65	8	1
	46041	2414 Dixie Rd. Mississauga	343	29	45	57	75	110	168	196	64	57	19	NIL
	46045	2365 Dixie Rd. Mississauga	323	33	43	54	69	102	166	169	61	55	16	NIL
	46046	2360 Dixie Rd. Mississauga	332	29	40	52	65	97	158	245	58	52	14	NIL

Table 16 — *Continued...*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR	1-YR
CENTRAL	46110	Queensway W./Hurontario St. Mississauga	118	36	46	60	87	117	228	230	73	64	12	1
	47019	Post Office 17-25 Peter St. N., Orillia	52	16	31	40	65	84	178	204	53	42	3	NIL
	47042	Armoury Bldg. Park Parkside St., Barrie	102	17	24	34	47	67	87	126	38	32	1	NIL
	48002	MTC Yard #9, Hwy. 47 Stouffville	115	15	24	32	47	72	118	122	39	33	2	NIL
	58027	51 Shuter St. Port Hope	61	17	24	29	40	49	79	79	33	30	NIL	NIL
	58028	2 Choate St. Port Hope	49	21	32	42	49	70	81	87	42	39	NIL	NIL
	59006	City Hall 500 George St., Peterborough	97	25	34	43	65	89	150	223	53	46	4	NIL
SOUTH EAST	51001	McDonald Gdns., Rideau/ Wurtemburg St., Ottawa	46	21	27	37	46	68	80	80	40	36	NIL	NIL
	51018	55 Queen St. Ottawa	50	17	23	30	42	58	76	79	35	32	NIL	NIL
	54013	Post Office Bldg. Belleville	45	24	35	53	71	117	242	374	66	53	4	NIL
	56006	4 Montreal Rd. Cornwall	52	21	27	35	52	65	150	165	43	37	2	NIL
	56051	Memorial Park York/3rd St., Cornwall	48	24	40	50	63	82	124	140	54	48	1	NIL
NORTH WEST	62013	Weather Station Atikokan	42	11	13	18	32	46	68	74	25	21	NIL	INS
	62032	Cemetery, Colonization Rd. W. Fort Frances	44	11	25	34	54	74	172	180	45	33	3	INS
	62035	Legion Bldg. 250 Church St. Fort Frances	46	25	49	71	90	174	215	242	81	64	8	1
	63005	Hospital, Archibald/ Arthur, Thunder Bay	44	17	24	36	49	73	108	122	41	35	1	INS
	63012	Dawson Ct./Algoma St. N. Thunder Bay	54	16	26	34	40	68	124	144	39	33	1	NIL
	63022	Hospital, 35 Algoma St. N. Thunder Bay	52	18	28	40	47	66	99	104	41	36	NIL	NIL
	63040	435 James St. S. Thunder Bay	52	14	27	41	54	80	99	99	43	36	NIL	NIL
	63046	Can Car Bldg. Montreal St., Thunder Bay	54	23	42	57	82	120	175	176	67	55	6	NIL
	63052	Trnst. Maint. Bldg. William Rd., Thunder Bay	48	14	26	43	58	100	146	146	52	40	3	NIL
	63070	Centennial Dr. Longlac	10	27	42	58	82	114	131	133	66	55	1	INS
NORTH EAST	71020	Police Stn. Hillside Dr. N., Elliot Lake	41	12	22	32	42	59	151	188	38	30	1	INS
	71022	Sault College, Queens St. Sault Ste. Marie	61	21	36	44	57	78	123	123	49	44	2	NIL
	71023	Hydro Pole, Quirke Townsite No. 1, Elliot Lake	37	12	16	22	31	52	130	131	30	21	2	INS
	71042	Bonney St. Pumphouse Sault Ste. Marie	73	34	67	114	162	240	287	313	126	101	34	INS
	71049	Land Reg. Office Queen St., Sault Ste. Marie	68	21	26	33	47	61	111	114	39	35	NIL	INS
	71053	Denison Townsite Elliot Lake	46	5	14	20	28	52	77	79	26	19	NIL	NIL
	71054	Nordic Townsite Elliot Lake	46	5	12	16	28	52	80	91	24	18	NIL	NIL
	71062	Porridge Lake Subdiv. Elliot Lake	22	7	11	16	21	43	71	78	21	16	NIL	INS
	71063	Stollery Lake/Trailer Park	12	15	17	19	25	44	63	66	26	22	NIL	INS
	71065	St. Joseph's Hospital Blind River	44	9	13	20	25	37	48	48	21	19	NIL	INS
	71066	Farwell Pumphouse Sault Ste. Marie	25	26	31	39	46	74	133	143	47	41	1	INS
	75010	OPP Station North Bay	54	18	25	30	41	68	94	100	38	33	NIL	NIL
	77016	Ash Street Water Tank Sudbury	52	13	22	27	38	60	76	82	32	28	NIL	NIL
	77026	19 Lisgar St. Sudbury	52	22	30	38	52	86	124	153	46	40	1	NIL
	77029	Post Office, Spruce/ Barber St., Espanola	56	22	34	50	66	90	120	151	53	46	1	NIL
	77070	Nickel St. Pump House Copper Cliff	54	21	28	36	52	73	116	142	44	38	1	NIL
	77076	Post Office Falconbridge	49	14	22	31	51	81	113	125	41	33	1	NIL

Table 17 **Summary of Data: Sulphate in Total Suspended Particulate (all values in micrograms per cubic meter)**

No Existing Criteria

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN
SOUTH WEST	10015	Public Bldg., 64 West St. Goderich	27	3.7	6.4	7.7	9.0	15.2	17.0	17.2	8.6	7.6
	12002	City Hall 444 Windsor Ave., Windsor	54	5.1	6.5	7.7	11.8	16.4	22.7	27.5	9.7	8.7
	12005	7730 Riverside Dr. E. Windsor	52	5.0	6.1	7.1	8.4	17.2	27.0	29.6	9.3	8.1
	12008	467 University Ave. W. Windsor	328	4.6	6.1	7.8	10.6	15.5	28.7	41.7	9.5	8.3
	12009	9725 Riverside Dr. E. Little River	55	5.6	6.4	7.6	10.3	15.8	19.4	20.3	9.1	8.4
	12010	Tecumseh Sewage Stn. Manning Rd., Windsor	33	5.1	5.8	6.5	8.6	13.7	18.6	19.3	8.2	7.6
	12013	Filtration Plant, 3665 Wyandotte St. E., Windsor	32	5.7	6.8	8.0	10.0	17.0	22.2	23.4	9.6	8.8
	12015	Sewage Plant Hwy. 18/Prospect, Windsor	43	6.2	7.7	8.7	12.9	16.8	26.3	27.5	10.8	9.8
	12032	Morton Dock Bedford/ Objibway, Windsor	57	7.5	8.0	10.1	12.5	17.7	23.6	26.3	11.3	10.7
	13003	Post Office, 10 Centre St. Chatham	55	4.7	6.3	7.3	9.8	13.9	22.6	25.4	8.7	7.9
	14001	General Hospital 270 Milton St., Sarnia	34	4.0	5.7	6.7	8.4	12.8	17.3	18.2	7.8	7.1
	14016	Opposite Lambton GS Hwy. 40, Courtright	340	4.3	5.6	6.8	9.4	13.6	27.5	46.0	8.4	7.4
	14030	RR #1, West of The House, Corunna	34	3.6	4.9	6.3	8.2	11.7	14.1	14.5	7.1	6.4
	14031	RR #1, West Side of Barn, Mooretown	33	3.8	6.1	7.3	8.6	12.3	15.3	16.1	7.8	7.2
	14054	Sarnia Yacht Club Point Edward, Sarnia	24	4.8	6.2	7.0	8.3	11.0	13.9	14.1	7.6	7.2
	14064	Centennial Pk., Front St./ CN Tracks, Sarnia	60	5.2	7.1	10.0	12.4	20.7	25.5	29.7	11.2	9.7
	14151	St. Clair River David/Front St., Sarnia	37	4.6	5.5	7.0	8.7	16.5	21.6	21.7	8.7	7.7
	15001	Western Fair Grounds King/Rectory, London	58	4.1	5.2	6.9	9.5	14.1	23.9	27.2	8.3	7.3
	15003	362 Dundas St. London	56	4.1	5.8	7.6	10.2	13.1	17.8	21.1	8.3	7.5
WEST CENTRAL	22071	Experimental Farm Simcoe	56	4.3	5.2	7.3	10.6	14.4	17.9	19.4	8.4	7.5
	22086	Cheapside Rd., 3 km S. of Hwy 3, Nanticoke	56	6.2	7.5	8.9	11.6	17.9	23.9	27.0	10.6	9.5
	26029	Trailer, Edna/ Frederick St., Kitchener	55	3.8	5.8	7.5	9.0	11.4	15.5	15.8	7.6	7.0
	27008	71 King St. St. Catharines	56	5.8	7.0	8.7	11.8	16.5	23.2	24.4	10.2	9.2
	27037	North/Geneva St. St. Catharines	57	5.3	8.4	9.5	11.1	21.0	26.8	29.5	11.2	9.9
	27049	Murray/Buchanan Ave. Niagara Falls	12	6.3	7.5	9.3	13.5	16.8	18.7	18.9	10.8	9.9
	27056	Allendale Ave. Niagara Falls	14	4.7	7.1	10.2	12.1	16.4	19.7	20.1	10.4	9.3
	28025	Farquhar/Wyndham St. Guelph	55	3.3	4.7	6.4	8.3	9.9	14.4	14.5	6.7	6.1
	29001	Hughson/Hunter Hamilton	53	4.9	6.8	8.4	12.2	16.0	31.0	48.3	10.4	9.0
	29008	North Park Hamilton	304	5.5	7.8	10.2	14.0	21.8	36.5	49.0	12.3	10.6
	29011	Burlington/Leeds Hamilton	54	5.3	8.2	11.2	14.2	21.4	25.9	26.3	12.3	10.9
	29012	Burlington/Wellington Hamilton	52	6.1	8.2	10.5	11.6	15.7	19.7	19.8	10.6	10.0
	29017	Chatham/Frid Hamilton	57	5.9	7.5	9.8	12.1	17.9	23.0	24.2	10.8	9.9
	29025	Barton/Wentworth Hamilton	328	5.8	7.4	10.2	13.0	18.2	29.4	37.5	11.4	10.1
	29085	Upper Wellington/Inverness Hamilton	57	4.1	6.1	8.3	10.9	15.9	23.8	24.9	9.6	8.5
	29087	405 Cumberland Ave. Hamilton	57	5.0	6.7	9.1	11.1	15.2	20.2	20.8	9.6	8.8
CENTRAL	31103	26 Breadalbane Toronto Backup	39	4.2	6.4	7.5	9.4	13.8	37.5	49.5	9.5	7.9
	31104	26 Breadalbane Toronto	346	5.3	6.8	8.1	10.2	16.1	32.3	39.6	9.7	8.7
	31105	Sherbourne/ Wilton St., Toronto	116	6.2	7.6	9.4	11.0	17.8	25.7	39.6	10.7	9.8
	31120	Junction Triangle Perth Ave. Toronto	108	5.0	6.2	7.4	8.8	15.3	36.6	103.0	9.8	8.1
	31123	26 Breadalbane Toronto	34	1.3	2.5	4.0	6.4	11.7	18.5	20.2	5.5	4.0

Table 17 — *Continued . . .*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN
CENTRAL	31124	26 Breadalbane Toronto	34	0.9	1.9	2.9	4.8	9.1	16.1	17.4	4.2	2.6
	33003	Lawrence/Kennedy Scarborough	116	5.4	6.6	7.7	9.7	16.5	24.2	38.7	9.5	8.4
	33019	Met. Branch, Scarborough Bluffs, Scarborough	112	4.5	5.7	6.5	8.1	13.7	21.6	25.2	8.2	7.2
	34002	Science Centre 770 Don Mills Rd., North York	118	4.9	6.3	7.1	9.2	15.6	23.0	34.6	8.9	8.0
	34007	Bathurst/Wilson North York	103	5.1	6.5	7.5	9.4	14.3	21.1	22.5	8.7	7.9
	35003	Elmcrest Rd. Etobicoke	115	4.8	6.3	7.8	9.9	16.0	38.5	100.5	10.0	8.3
	35005	Queensway Hospital, Etobicoke	120	4.4	6.0	7.1	8.5	12.9	21.4	28.2	8.1	7.4
	35033	Evans/Arnold Ave. Etobicoke	112	5.6	6.9	8.1	10.3	16.0	24.4	35.7	9.7	8.8
	44008	Hwy 2/North Shore Blvd. E Burlington	118	6.1	7.4	8.4	11.0	16.7	24.4	40.7	10.4	9.4
	44015	Bronte Rd./Weburn Cres Oakville	111	5.4	6.9	7.9	11.2	17.0	27.1	37.0	9.9	8.9
	45001	Pickering Fire Hall Pickering	318	3.2	4.1	5.1	7.1	12.7	27.7	35.0	6.9	5.8
	45011	Public Library Oshawa	71	5.4	8.3	10.6	12.1	15.7	30.3	47.2	11.0	9.9
	45025	Ritson Rd./Olive Ave. Oshawa	118	5.4	6.5	7.8	9.9	17.6	27.3	40.2	9.8	8.7
	45060	Lasco Hopkins St. S. Whitby	78	4.4	5.9	7.5	9.8	16.9	25.6	36.8	9.3	8.0
	46025	Mississauga Public Library Mississauga	55	5.7	7.5	8.7	13.7	20.2	26.0	27.4	11.3	10.0
	46033	Bramalea Fire Hall Bramalea	55	5.1	6.3	8.1	12.4	17.4	25.1	26.8	10.2	9.0
	46110	Queensway W./Hurontario St Mississauga	118	4.5	6.0	7.2	9.4	13.7	20.9	48.3	8.6	7.6
	47019	Post Office, 17-25 Peter St. S Orillia	52	4.1	5.9	7.8	9.8	15.8	21.2	24.2	8.7	7.8
	47042	Armoury Bldg. Park/ Parkside St., Barrie	102	4.0	5.8	6.8	9.2	13.8	24.1	31.4	8.3	7.3
	48002	Trailer/MTC Yard #9 Hwy. 47, Stouffville	115	3.6	5.2	6.8	8.8	14.4	20.3	38.7	8.0	6.9
	59006	City Hall 500 George St., Peterborough	97	4.2	5.8	7.1	9.4	14.6	23.3	32.0	8.4	7.5
SOUTH EAST	51001	McDonald Gdns., Rideau/ Wurtemburg St., Ottawa	46	3.4	4.3	5.5	7.4	12.2	20.2	22.8	6.8	5.8
	51018	55 Queen St Ottawa	34	2.6	5.0	5.8	6.9	9.6	13.5	15.0	6.2	5.5
	54013	Post Office Bldg Belleville	42	3.9	5.7	6.7	10.1	16.2	22.2	23.5	8.7	7.5
	56006	4 Montreal Rd Cornwall	52	4.4	5.2	6.4	9.4	14.4	22.1	25.5	8.2	7.1
	56051	Memorial Park York/Third St., Cornwall	48	6.0	7.5	9.8	13.8	20.7	29.3	31.6	11.9	10.6
	58027	51 Shuter St. Port Hope	53	2.9	3.9	5.1	6.9	13.1	18.7	20.8	6.6	5.6
	58028	2 Choate St. Port Hope	42	2.7	4.0	4.7	6.5	12.4	20.4	21.6	6.2	5.3
NORTH WEST	63005	Hospital, Archibald/ Arthur St., Thunder Bay	54	2.4	3.6	4.0	4.7	7.4	10.1	10.7	4.4	4.0
	63022	Hospital, 35 Algoma St. N. Thunder Bay	52	2.2	3.3	4.1	5.3	6.4	9.3	9.7	4.3	4.0
	63040	435 James St. S Thunder Bay	52	2.7	3.9	5.3	6.4	9.4	13.1	13.9	5.7	5.0
NORTH EAST	71022	Sault College Queens St., Sault Ste. Marie	61	4.8	6.0	7.5	8.4	13.1	24.2	35.1	8.5	7.6
	71042	Bonney St. Pump House Sault Ste. Marie	69	5.0	7.8	10.5	17.3	26.5	67.6	166.3	15.7	11.3
	71049	Land Reg. Office Queen St., Sault Ste. Marie	68	4.9	6.1	7.0	8.2	10.8	17.5	18.7	7.6	7.0
	71066	Farewell Pumphouse Sault Ste. Marie	25	3.5	4.9	6.7	10.3	12.7	16.2	16.5	7.7	6.7
	75010	OPP Station North Bay	53	3.9	5.1	6.6	7.6	12.7	21.9	23.2	7.5	6.6
	77016	Ash St. Water Tank Sudbury	52	5.5	7.0	7.8	9.5	16.6	23.4	27.3	9.5	8.5
	77026	19 Lisgar St. Sudbury	52	5.5	7.2	8.7	11.2	16.3	25.5	29.7	10.1	9.1
	77029	Post Office, Spruce/ Barber St., Espanola	22	6.3	7.3	8.0	9.4	13.7	27.2	28.0	9.7	8.5
	77070	Nickel St. Pump House Copper Cliff	54	6.1	8.1	9.4	13.3	21.3	26.9	28.3	11.7	10.4
	77076	Post Office Falconbridge	49	4.9	6.1	7.9	9.1	14.9	27.5	28.8	9.1	8.1

Table 18 **Summary of Data: Nitrate in Total Suspended Particulate (all values in micrograms per cubic meter)**
No Existing Criteria

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN
SOUTH WEST	10015	Public Bldg., 64 West St Goderich	27	0.8	1.8	3.4	4.5	6.6	8.5	8.6	3.5	2.7
	12002	City Hall 444 Windsor Ave., Windsor	54	1.8	2.8	4.6	6.2	7.9	11.7	14.5	4.8	4.1
	12005	7730 Riverside Dr. E Windsor	52	1.1	2.1	3.4	4.5	6.2	9.6	11.0	3.6	2.9
	12008	467 University Ave. W Windsor	328	1.5	2.5	3.5	4.8	7.1	11.8	13.2	4.0	3.4
	12009	9725 Riverside Dr. E Little River	55	1.6	2.5	3.8	4.9	7.5	10.8	12.0	4.1	3.5
	12010	Tecumseh Sewage Stn. Manning Rd., Windsor	33	1.5	2.4	3.2	3.6	4.2	8.8	10.3	3.2	2.8
	12013	Filtration Plant, 3665 Wyandotte St. E., Windsor	32	2.0	3.5	4.5	5.1	7.6	11.3	12.5	4.6	4.0
	12015	Sewage Plant Hwy. 18/Prospect, Windsor	43	1.6	2.7	3.6	4.9	8.2	12.8	13.8	4.5	3.6
	12032	Morton Dock Bedford/ Ojibway, Windsor	57	1.7	3.2	3.9	5.4	7.6	11.2	13.7	4.5	3.8
	13003	Post Office, 10 Centre St. Chatham	55	1.1	2.3	3.6	4.9	6.2	10.4	12.5	3.8	3.1
	14001	General Hospital 220 Mitton St., Sarnia	34	1.0	1.9	3.0	3.9	5.7	7.7	8.8	3.2	2.6
	14016	Opposite Lambton GS Hwy. 40, Courtright	340	0.9	1.8	2.6	4.0	5.9	8.2	9.5	3.1	2.4
	14030	RR #1, West of The House, Corunna	34	1.0	2.2	2.7	3.8	5.8	9.0	9.4	3.2	2.6
	14031	RR #1, West Side of Barn, Mooretown	33	1.0	2.3	3.6	4.2	6.5	10.1	11.3	3.6	2.9
	14054	Sarnia Yacht Club, Point Edward, Sarnia	24	0.7	2.1	3.3	3.8	7.2	9.9	10.2	3.6	2.7
	14064	Centennial Pk, Front St./ CN Tracks, Sarnia	57	1.2	2.7	4.5	6.1	9.1	12.7	16.2	4.8	3.7
	14151	St. Clair River, David/ Front St., Sarnia	37	1.2	2.6	3.3	4.8	6.5	11.0	11.5	3.9	3.2
	15001	Western Fair Grounds King/Rectory, London	58	1.1	2.3	4.1	5.3	7.5	11.2	11.5	4.2	3.3
	15003	362 Dundas St. London	56	1.1	2.2	3.2	4.3	6.4	8.8	8.9	3.5	2.9
WEST CENTRAL	22071	Experimental Farm Simcoe	55	1.0	2.1	2.9	4.0	6.1	9.7	9.9	3.3	2.7
	22086	Cheapside Rd., 3 km S. of Hwy. 3, Nanticoke	56	1.5	2.8	4.3	5.0	7.5	12.5	17.4	4.4	3.6
	26029	Trailer, Edna/ Frederick St., Kitchener	55	1.1	2.2	3.9	4.7	6.9	11.9	12.5	4.0	3.1
	27008	71 King St. St. Catharines	56	1.5	2.9	3.9	5.8	7.0	10.6	11.6	4.5	3.8
	27037	North/Geneva St. St. Catharines	57	2.1	3.3	4.0	5.5	7.0	10.6	14.7	4.4	3.9
	27049	Murray/Buchanan Ave. Niagara Falls	12	1.7	3.9	4.8	5.6	7.9	10.7	11.0	5.0	4.3
	27056	Allendale Ave. Niagara Falls	14	1.5	1.8	2.4	3.1	4.0	4.4	4.4	2.6	2.4
	28025	Farquhar/Wyndham St. Guelph	55	0.8	2.1	3.0	4.4	5.3	10.2	10.6	3.3	2.6
	29001	Hughson/Hunter Hamilton	55	1.3	2.5	3.6	4.9	7.5	13.7	19.7	4.2	3.4
	29008	North Park Hamilton	337	1.3	2.6	3.6	5.1	8.1	16.8	23.0	4.4	3.5
	29011	Burlington/Leeds Hamilton	54	1.3	2.2	2.9	5.0	8.0	13.0	17.2	4.1	3.2
	29012	Burlington/Wellington Hamilton	52	1.8	3.0	4.0	5.6	8.2	14.0	21.1	4.7	3.8
	29017	Chatham/Frid Hamilton	56	1.4	2.5	4.0	5.9	8.5	13.8	18.5	4.8	3.8
	29025	Barton/Wentworth Hamilton	328	1.6	2.7	4.0	5.3	8.2	12.4	21.6	4.5	3.7
	29085	Upper Wellington/Inverness Hamilton	57	1.2	2.3	3.0	3.7	6.7	11.4	15.1	3.6	3.0
	29087	405 Cumberland Ave.										
CENTRAL	31103	Hamilton 26 Breadalbane	57	1.1	2.4	2.9	4.1	6.1	11.9	16.2	3.5	2.9
	31104	Toronto Backup 26 Breadalbane	39	1.5	2.6	3.3	4.4	6.9	10.1	10.2	3.9	3.4
	31105	Toronto Sherbourne/	355	1.3	2.5	3.7	5.5	8.2	14.0	16.6	4.5	3.6
	31120	Wilton St., Toronto Junction Triangle	116	1.4	2.3	3.3	4.9	8.6	14.7	15.8	4.4	3.4
	31123	Perth Ave., Toronto 26 Breadalbane	108	1.1	2.1	3.1	4.5	6.9	11.6	12.8	3.6	2.8
		Toronto	37	0.1	0.2	0.5	1.0	2.1	2.6	2.8	0.8	0.3

Table 18 — *Continued . . .*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN
CENTRAL	31124	26 Breadalbane Toronto	38	0.1	0.1	0.1	0.6	1.2	2.5	3.0	0.4	0.1
	33003	Lawrence/Kennedy Scarborough	116	1.4	2.2	3.0	4.7	8.3	11.3	18.2	4.0	3.2
	33019	Met. Branch, Scarborough Bluffs, Scarborough	112	1.2	2.2	2.9	4.1	6.6	10.3	12.0	3.5	2.8
	34002	Science Centre 770 Don Mills Rd., North York	117	1.3	2.3	2.9	4.8	7.0	10.7	11.8	3.8	3.1
	34007	Bathurst/Wilson North York	103	1.2	1.8	2.6	4.2	6.3	12.9	13.9	3.4	2.7
	35003	Elmcrest Rd Etobicoke	115	1.1	2.1	3.2	4.7	6.5	11.7	20.3	3.7	2.9
	35005	Queensway Hospital Etobicoke	120	1.3	2.3	2.9	4.2	6.3	8.1	12.0	3.5	2.9
	35033	Evans/Arnold Ave Etobicoke	112	1.2	2.6	3.3	4.6	7.2	12.8	13.0	4.0	3.3
	44008	Hwy 2/North Shore Blvd E Burlington	118	1.3	2.2	3.5	4.7	8.3	13.2	14.0	4.1	2.9
	44015	Bronte Rd /Woburn Cres Oakville	117	1.2	2.0	2.9	4.1	6.4	10.7	11.4	3.5	2.7
	45001	Pickering Fire Hall Pickering	318	0.6	1.4	2.2	3.2	5.7	10.3	11.2	2.7	2.0
	45011	Public Library Oshawa	71	1.2	2.1	2.8	4.5	8.3	11.1	12.2	3.8	2.9
	45025	Ritson Rd /Olive Ave Oshawa	118	1.1	1.9	2.9	4.9	9.1	11.4	11.6	4.0	3.0
	45060	Lasco Hopkins St S Whitby	78	0.5	1.4	2.5	4.3	7.0	10.3	12.3	3.3	2.2
	46025	Mississauga Public Library Mississauga	55	1.5	3.0	4.1	6.3	8.9	15.7	16.9	5.1	4.1
	46033	Bramalea Fire Hall Bramalea	55	1.5	2.3	3.8	6.7	9.3	17.9	18.7	5.1	3.8
	46110	Queensway W /Hurontario St., Mississauga	118	1.4	2.3	3.0	4.5	6.7	8.6	13.2	3.6	3.0
	47019	Post Office 17-25 Peter St S Orillia	52	1.0	1.8	2.9	4.7	6.7	9.8	10.0	3.5	2.6
	47042	Armoury Bldg. Park/ Parkside St., Barrie	102	0.8	1.4	2.4	3.9	5.8	7.7	12.5	2.9	2.1
	48002	Trailer/MTC Yard #9 Hwy. 47, Stouffville	115	0.8	1.7	2.3	3.6	6.2	11.6	12.2	3.2	2.4
	59006	City Hall, 500 George St Peterborough	97	0.7	1.3	2.2	3.5	6.9	9.9	10.3	3.1	2.2
SOUTH EAST	51001	McDonald Gdns., Rideau/ Wurtemburg St., Ottawa	46	0.4	0.8	1.2	2.2	3.8	8.2	9.1	1.9	1.3
	51018	55 Queen St Ottawa	34	0.4	0.6	1.3	2.0	3.5	8.5	9.0	1.9	1.3
	54013	Post Office Bldg Belleville	45	1.1	1.8	3.0	4.3	8.4	14.3	15.2	4.1	2.9
	56006	4 Montreal Rd Cornwall	52	0.7	1.2	1.7	2.6	4.2	9.0	9.4	2.3	1.8
	56051	Memorial Park York/Third St., Cornwall	48	0.9	1.5	2.3	3.3	5.1	9.8	13.8	2.9	2.3
	58027	51 Shuter St Port Hope	61	0.8	1.6	2.5	3.6	5.9	8.6	9.2	3.0	2.3
	58028	2 Choate St Port Hope	49	1.2	1.9	2.4	3.6	6.2	9.6	9.8	3.2	2.6
NORTH WEST	63005	Hospital, Archibald/ Arthur St., Thunder Bay	54	0.3	0.5	0.8	1.2	2.0	5.9	6.2	1.1	0.7
	63022	Hospital, 35 Algoma St. S. Thunder Bay	52	0.3	0.6	0.9	1.2	2.4	5.4	6.2	1.2	0.8
	63040	435 James St. S Thunder Bay	52	0.4	0.7	1.0	1.6	2.6	7.0	7.1	1.5	1.1
NORTH EAST	71022	Sault College Queens St., Sault Ste. Marie	61	0.5	0.9	1.3	1.9	2.7	3.6	4.0	1.5	1.2
	71042	Bonney St. Pump House Sault Ste. Marie	73	0.5	1.0	1.4	2.4	3.5	5.9	8.5	1.9	1.5
	71049	Land Reg. Office Queen St., Sault Ste. Marie	68	0.5	1.0	1.4	2.0	2.9	4.8	5.9	1.7	1.3
	71066	Farwell Pumphouse Sault Ste. Marie	25	0.6	0.9	1.3	2.3	2.9	5.6	6.5	1.8	1.4
	75010	OPP Station North Bay	54	0.4	0.8	1.3	1.9	3.3	5.5	6.7	1.7	1.2
	77016	Ash St. Water Tank Sudbury	52	0.7	0.9	1.3	1.8	2.6	5.1	5.4	1.5	1.3
	77026	19 Lisgar St. Sudbury	52	0.7	1.1	1.7	2.3	3.1	6.7	8.3	1.9	1.5
	77070	Nickel St. Pump House Copper Cliff	54	0.3	0.7	1.1	1.9	3.2	9.0	14.3	1.7	1.1
	77076	Post Office Falconbridge	49	0.3	0.5	0.9	1.6	2.7	4.6	4.9	1.3	0.8

Table 19 **Summary of Data: Lead in Total Suspended Particulate**
(all values in micrograms per cubic meter)
Ontario Criterion — 24 hour average: 5.0 ug/m³

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR
SOUTH WEST	12002	City Hall 444 Windsor Ave., Windsor	49	0.1	0.2	0.2	0.3	0.5	0.7	0.9	0.3	0.2	0
	12005	7730 Riverside Dr. W. Windsor	51	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.2	0.2	0
	12008	467 University Ave. W. Windsor	328	0.1	0.2	0.2	0.3	0.4	0.7	0.9	0.3	0.2	0
	12009	9725 Riverside Dr. E. Windsor	53	0.1	0.1	0.1	0.2	0.3	0.7	0.8	0.2	0.1	0
	12010	Tecumseh Sewage Stn. Manning Rd., Windsor	33	0.1	0.1	0.1	0.2	0.3	0.5	0.5	0.2	0.1	0
	12013	Filtration Plant, 3665 Wyandotte St. E., Windsor	56	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.2	0.2	0
	12015	Sewage Plant Hwy. 18/Prospect, Windsor	57	0.1	0.1	0.2	0.2	0.3	0.6	1.0	0.2	0.2	0
	12032	Morton Dock Bedford/Ojibway, Windsor	57	0.1	0.1	0.1	0.2	0.3	0.6	0.9	0.2	0.1	0
	13003	Post Office 10 Center St., Chatham	55	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.2	0.2	0
	14001	General Hospital 220 Minton St., Sarnia	34	0.1	0.1	0.1	0.1	0.2	0.4	0.5	0.1	0.1	0
	14016	Opposite Lambton GS Hwy. 40, Courtright	340	0.1	0.1	0.1	0.1	0.1	0.3	0.4	0.1	0.1	0
	14030	RR #1, West of The House, Corunna	57	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0
	14031	RR #1, West Side of Barn, Mooretown	55	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0
	14054	Sarnia Yacht Club Port Edward, Sarnia	24	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0
	14064	Centennial Park Front St./CN Tracks, Sarnia	57	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.2	0.2	0
	15001	Western Fair Grounds King/Rectory, London	58	0.1	0.2	0.3	0.4	0.6	1.0	1.2	0.3	0.3	0
	15003	362 Dundas St. London	55	0.1	0.1	0.2	0.3	0.4	0.6	0.6	0.2	0.2	0
	15008	Edgeware Rd., NNW of Varto Plant, St. Thomas	54	0.1	0.1	0.1	0.1	0.2	0.6	0.7	0.1	0.1	0
	15009	Conservation Authority Longwoods	17	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0
WEST CENTRAL	22071	Experimental Farm Simcoe	56	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.1	0
	26029	Edna/Frederick St. Kitchener	55	0.2	0.3	0.6	0.9	1.4	2.1	2.2	0.7	0.5	0
	27008	71 King St. St. Catharines	56	0.1	0.2	0.2	0.2	0.4	0.5	0.6	0.2	0.2	0
	27037	North/Geneva St. St. Catharines	53	0.1	0.2	0.3	0.4	0.5	1.1	1.2	0.3	0.3	0
	27049	Murray/Buchanan Ave. Niagara Falls	12	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.2	0.2	0
	27056	Allendale Ave. Niagara Falls	14	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1	0.1	0
	28024	95 Inkerman St. Guelph	26	0.1	0.1	0.2	0.2	0.5	0.7	0.7	0.2	0.2	0
	28025	Farquhar/Wyndham St. Guelph	56	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.2	0.2	0
	29001	Hughson/Hunter Hamilton	55	0.1	0.2	0.3	0.4	0.7	1.1	1.4	0.4	0.3	0
	29008	North Park Hamilton	330	0.1	0.3	0.5	0.7	0.9	1.5	2.4	0.5	0.4	0
	29011	Burlington/Leeds Hamilton	54	0.2	0.3	0.3	0.4	0.5	1.0	1.0	0.3	0.3	0
	29012	Burlington/Wellington Hamilton	52	0.1	0.2	0.2	0.3	0.4	0.9	1.2	0.3	0.2	0
	29017	Chatham/Frid Hamilton	55	0.1	0.2	0.3	0.4	0.6	1.2	1.8	0.3	0.3	0
	29025	Barton/Wentworth Hamilton	328	0.2	0.3	0.4	0.5	0.7	1.3	2.5	0.4	0.4	0
	29067	450 Hughson St. N. Hamilton	56	0.1	0.1	0.2	0.2	0.3	0.6	0.8	0.2	0.2	0
	29085	Upper Wellington/Inverness Hamilton	57	0.1	0.2	0.2	0.3	0.5	0.9	1.2	0.3	0.2	0
CENTRAL	31058	Mosley/Leslie Sts. Toronto	350	0.2	0.3	0.5	0.9	1.8	4.0	4.8	0.8	0.5	0
	31064	17 Berkshire Ave. Toronto	247	0.1	0.2	0.4	0.6	1.2	2.2	6.7	0.5	0.3	1
	31079	Fire Hall, 1285 Dufferin St., Toronto	340	0.1	0.2	0.3	0.5	0.7	1.1	1.9	0.4	0.3	0
	31082	Works Dept. 138 Hamilton Ave., Toronto	349	0.1	0.3	0.4	0.6	1.0	1.8	2.3	0.5	0.4	0
	31084	Maydwell Mfg. 65 Saulter St., Toronto	345	0.1	0.1	0.2	0.3	0.6	1.3	1.8	0.3	0.2	0
	31085	Tecumseth/Niagara St. Toronto	344	0.3	0.6	1.1	1.8	3.4	9.0	15.1	1.6	1.0	13
	31103	26 Breadalbane Toronto Backup	39	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.3	0.3	0

Table 19 — *Continued...*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR
CENTRAL	31104	26 Breadalbane Toronto	355	0.1	0.2	0.3	0.3	0.5	0.7	0.9	0.3	0.3	0
	31105	Hydro SS, Sherbourne/ Wilton St., Toronto	116	0.2	0.3	0.4	0.6	0.9	1.5	1.6	0.5	0.4	0
	31120	Junction Triangle Perth Ave., Toronto	108	0.1	0.1	0.2	0.3	0.5	1.2	1.4	0.3	0.2	0
	31123	26 Breadalbane Toronto	37	0.2	0.2	0.3	0.4	0.5	0.8	0.9	0.3	0.3	0
	31124	26 Breadalbane Toronto	37	0.2	0.2	0.2	0.3	0.4	0.6	0.7	0.3	0.2	0
	31181	60 Bathurst St. Toronto	156	0.1	0.1	0.3	0.5	1.1	1.8	10.3	0.5	0.3	1
	33003	Lawrence/Kennedy Scarborough	116	0.2	0.2	0.4	0.5	0.7	1.2	1.5	0.4	0.3	0
	33019	Met. Branch, Scarborough Bluffs, Scarborough	112	0.1	0.1	0.1	0.1	0.2	0.5	0.5	0.1	0.1	0
	34002	Science Centre 770 Don Mills Rd., North York	117	0.1	0.2	0.2	0.3	0.5	1.1	1.1	0.3	0.2	0
	34007	Bathurst/Wilson North York	103	0.1	0.3	0.7	1.0	1.4	2.0	3.3	0.7	0.5	0
	35003	Elmcrest Rd. Etobicoke	115	0.1	0.2	0.3	0.4	0.6	1.2	1.8	0.3	0.3	0
	35033	Evans/Arnold Ave. Etobicoke	112	0.2	0.4	0.5	0.7	1.0	1.7	1.7	0.6	0.5	0
	35037	3050 Lakeshore Blvd. W. Etobicoke	129	0.1	0.1	0.2	0.3	0.5	0.9	1.2	0.3	0.2	0
	44008	Hwy. 2/North Shore Blvd. E Burlington	47	0.1	0.2	0.3	0.3	0.6	0.8	0.9	0.3	0.3	0
	44015	Bronte Rd./Woburn Cres. Oakville	72	0.1	0.1	0.1	0.2	0.3	0.4	0.4	0.2	0.1	0
	45001	Pickering Fire Hall Pickering	318	0.1	0.1	0.2	0.3	0.5	0.8	0.9	0.2	0.2	0
	45011	Public Library Oshawa	119	0.1	0.1	0.2	0.2	0.4	0.6	0.8	0.2	0.2	0
	45025	Ritson Rd./Olive Ave. Oshawa	118	0.1	.01	.02	0.4	0.6	1.0	1.0	0.3	0.2	0
	45060	Lasco Hopkins St. S. Whitby	88	0.1	0.1	0.2	0.3	0.8	1.7	2.1	0.3	0.2	0
	46025	Mississauga Public Library Mississauga	54	0.2	0.3	0.3	0.4	0.6	1.1	1.2	0.4	0.3	0
	46033	Bramalea Fire Hall Bramalea	56	0.1	0.2	0.3	0.4	0.6	1.1	1.2	0.3	0.3	0
	46041	2414 Dixie Rd. Mississauga	343	0.3	0.7	1.3	2.3	6.8	15.5	32.3	2.6	1.3	50
	46045	2365 Dixie Rd. Mississauga	342	0.1	0.3	0.7	1.1	2.4	4.9	9.6	1.0	0.6	1
	46046	2360 Dixie Rd. Mississauga	338	0.3	0.7	1.1	2.4	5.9	10.5	12.2	2.2	1.2	44
	46110	Queensway W./Hurontario St., Mississauga	118	0.1	0.1	0.2	0.3	0.5	1.2	1.3	0.3	0.2	0
	47042	Armoury Bldg., Park/ Parkside St., Barrie	102	0.1	0.1	0.2	0.3	0.4	0.9	1.4	0.2	0.2	0
	59006	City Hall, 500 George St. Peterborough	96	0.1	0.2	0.2	0.3	0.5	0.7	1.1	0.3	0.2	0
SOUTH EAST	51001	McDonald Gdns., Rideau/ Wurtemburg, Ottawa	46	0.1	0.1	0.2	0.2	0.3	0.5	0.7	0.2	0.2	0
	54013	Post Office Bldg. Belleville	45	0.1	0.2	0.2	0.3	0.5	1.2	1.4	0.3	0.2	0
	56051	Memorial Park York Third St., Cornwall	48	0.1	0.2	0.2	0.3	0.4	0.9	0.9	0.2	0.2	0
NORTH WEST	63005	Hospital, Archibald/ Arthur, Thunder Bay	54	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.2	0.2	0
	63022	Hospital, 35 Algoma St. N. Thunder Bay	52	0.1	0.1	0.1	0.2	0.4	0.6	0.6	0.2	0.2	0
	63040	435 James St. S. Thunder Bay	51	0.1	0.1	0.1	0.2	0.3	0.6	0.8	0.2	0.1	0
NORTH EAST	71022	Sault College Queen St., Sault Ste. Marie	61	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0
	71042	Bonney St. Pump House Sault Ste. Marie	73	0.1	0.1	0.1	0.2	0.2	0.5	0.8	0.2	0.1	0
	71049	Land Reg. Office Queen St., Sault Ste. Marie	40	0.1	0.2	0.2	0.3	0.4	0.7	0.7	0.3	0.2	0
	71066	Farwell Pumphouse Sault Ste. Marie	25	0.2	0.2	0.3	0.4	0.5	0.7	0.8	0.3	0.3	0
	75010	OPP Station North Bay	54	0.1	0.1	0.2	0.3	0.4	0.8	0.9	0.2	0.2	0
	77016	Ash St. Water Tank Sudbury	52	0.1	0.1	0.1	0.2	0.3	0.7	1.3	0.2	0.1	0
	77026	19 Lisgar St. Sudbury	52	0.1	0.2	0.3	0.4	0.5	1.4	1.8	0.3	0.3	0

Table 19 — *Continued...*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR
NORTH EAST	77070	Nickel St. Pump House Copper Cliff	53	0.1	0.1	0.1	0.2	0.3	1.2	1.2	0.2	0.2	0
	77076	Post Office Falconbridge	35	0.1	0.1	0.1	0.1	0.2	0.3	0.3	0.1	0.1	0

Table 20 **Summary of Data: Iron in Total Suspended Particulate**

(All values in micrograms per cubic meter)
No existing criteria

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN
SOUTH WEST	12002	City Hall 444 Windsor Ave., Windsor	33	0.6	0.7	1.0	1.5	2.7	3.0	3.0	1.3	1.1
	12005	7730 Riverside Dr. E Windsor	52	0.2	0.4	0.6	0.9	1.4	2.2	2.5	0.8	0.5
	12008	467 University Ave. W Windsor	328	0.5	0.8	1.1	1.5	2.3	3.7	5.5	1.2	1.0
	12010	Tecumseh Sewage Stn Manning Rd., Windsor	33	0.2	0.3	0.5	0.7	0.9	1.4	1.4	0.5	0.4
	12013	Filtration Plant, 3665 Wyandotte St. E., Windsor	56	0.5	0.9	1.8	3.9	7.5	13.1	16.2	3.2	1.9
	12015	Sewage Plant Hwy. 18/Prospect, Windsor	57	0.6	1.1	1.8	2.1	2.9	5.6	6.4	1.8	1.4
	12016	College/South St. Windsor	73	0.5	0.8	1.4	1.9	2.7	3.9	4.0	1.5	1.2
	12032	Morton Dock Bedford/ Ojibway, Windsor	57	0.6	0.8	1.4	1.9	3.5	6.3	6.4	1.7	1.3
	12039	Dougall/E.C. Row W Windsor	58	0.7	0.9	1.4	2.1	6.7	13.7	14.0	2.6	1.6
	13003	Post Office 10 Center St., Chatham	55	0.3	0.5	0.7	0.9	1.6	2.3	2.4	0.8	0.7
	14001	General Hospital 220 Mitton St., Sarnia	34	0.2	0.3	0.4	0.7	1.4	2.1	2.4	0.6	0.4
	14016	Opposite Lambton GS Hwy. 40, Courtright	339	0.2	0.3	0.4	0.6	1.0	1.8	3.6	0.5	0.4
	14030	RR #1, West of The House, Corunna	57	0.1	0.2	0.4	0.5	0.8	1.3	1.4	0.4	0.3
	14031	RR #1, West Side of Barn, Mooretown	55	0.1	0.3	0.5	0.7	1.2	1.9	2.3	0.6	0.4
	14064	Centennial Park Front St./CN Tracks, Sarnia	57	0.2	0.4	0.6	0.8	1.2	1.8	1.8	0.7	0.5
	15001	Western Fair Grounds King/Rectory, London	57	0.3	0.4	0.6	1.0	1.4	1.9	1.9	0.8	0.6
	15009	Conservation Authority Longwoods	17	0.2	0.2	0.2	0.4	0.6	1.1	1.3	0.4	0.3
WEST CENTRAL	22071	Experimental Farm Simcoe	55	0.1	0.2	0.4	0.9	1.8	2.0	2.0	0.7	0.4
	26029	Trailer, Edna/ Frederick St., Kitchener	55	0.3	0.5	0.7	1.2	1.9	3.1	4.3	0.9	0.7
	27008	71 King St. St. Catharines	56	0.4	0.6	0.7	1.0	1.5	2.0	2.3	0.8	0.7
	27056	Allendale Ave Niagara Falls	14	0.3	0.4	0.4	0.7	1.0	2.1	2.3	0.7	0.5
	28024	95 Inkerman St. Guelph	30	0.2	0.4	0.8	1.4	2.2	4.5	5.7	1.1	0.7
	28025	Farquhar/Wyndham St. Guelph	10	0.2	0.5	0.6	0.7	0.8	1.3	1.4	0.6	0.5
	29001	Hughson/Hunter Hamilton	55	0.4	0.7	1.4	2.1	5.9	11.2	13.2	2.3	1.4
	29008	North Park Hamilton	337	0.7	1.5	2.6	4.5	7.6	14.1	15.4	3.6	2.5
	20911	Burlington/Leeds Hamilton	54	1.6	3.1	4.7	6.8	12.6	18.7	19.3	6.0	4.5
	29012	Burlington/Wellington Hamilton	52	0.6	1.1	1.4	2.1	5.2	9.4	9.9	2.2	1.6
	29017	Chatham/Frid Hamilton	56	0.9	1.4	2.2	3.0	5.2	7.8	8.4	2.6	2.1
	29025	Barton/Wentworth Hamilton	328	0.8	1.3	2.0	3.9	8.0	14.2	18.0	3.3	2.2
	29067	450 Hughson St. N. Hamilton	56	0.3	0.6	0.9	1.4	3.2	5.2	5.4	1.4	0.9
	29085	Upper Wellington/ Inverness, Hamilton	57	0.3	0.6	1.1	1.9	3.9	10.5	13.5	1.9	1.1
CENTRAL	31058	Mosley/Leslie Sts. Toronto	350	0.4	0.9	1.3	1.9	3.7	7.5	9.8	1.7	1.2
	31064	17 Berkshire Ave. Toronto	243	0.4	0.7	1.0	1.5	2.5	4.2	5.1	1.3	0.9
	31103	26 Breadalbane Toronto Backup	39	0.2	0.5	0.6	0.9	1.7	2.5	2.9	0.8	0.6

Table 20 — *Continued...*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN
CENTRAL	31104	26 Breadalbane Toronto	355	0.4	0.7	0.9	1.1	1.8	3.0	4.0	1.0	0.8
	31120	Junction Triangle Perth Ave., Toronto	44	0.1	0.5	0.6	0.8	1.3	2.1	2.2	0.7	0.5
	31123	26 Breadalbane Toronto	37	0.3	0.5	0.8	1.0	1.5	2.3	2.4	0.9	0.7
	31124	26 Breadalbane Toronto	37	0.2	0.3	0.5	0.8	1.2	2.1	2.3	0.6	0.4
	33003	Lawrence/Kennedy Scarborough	116	0.2	0.4	0.7	0.9	1.7	2.4	3.2	0.8	0.6
	34002	Science Centre 770 Don Mills Rd., North York	117	0.2	0.3	0.5	0.8	1.3	2.2	2.3	0.6	0.4
	34007	Bathurst/Wilson North York	103	0.3	0.5	0.7	1.0	1.5	2.3	3.1	0.8	0.8
	35003	Elmcrest Rd. Etobicoke	46	0.1	0.2	0.4	0.5	1.0	2.1	2.1	0.5	0.2
	35033	Evans/Arnold Ave. Etobicoke	112	0.4	0.5	0.7	1.0	1.5	2.9	4.8	0.9	0.7
	35037	3050 Lakeshore Blvd. W. Etobicoke	158	0.1	0.5	0.8	1.0	1.8	4.2	6.6	0.9	0.6
	44008	Hwy. 2/North Shore Blvd. E. Burlington	47	0.3	0.5	0.8	1.3	1.7	9.7	18.0	1.4	0.8
	44015	Bronte Rd./Woburn Cres. Oakville	45	0.1	0.4	0.5	0.7	1.3	1.7	1.8	0.6	0.3
	45001	Pickering Fire Hall Pickering	318	0.2	0.4	0.6	0.8	1.4	2.5	3.5	0.7	0.5
	45011	Public Library Oshawa	118	0.2	0.4	0.5	0.9	1.5	2.1	2.5	0.7	0.5
	45060	Lasco Hopkins St. S. Whitby	88	0.3	0.6	1.1	2.9	6.8	11.0	11.6	2.5	1.2
	46025	Mississauga Public Library Mississauga	54	0.4	0.7	1.0	1.4	2.0	3.6	4.3	1.2	0.9
	46033	Bramalea Fire Hall Bramalea	56	0.4	0.6	1.1	1.8	3.7	5.0	5.2	1.6	1.1
	47042	Armoury Bldg., Park/ Parkside St., Barrie	102	0.1	0.1	0.3	0.6	1.0	1.6	1.7	0.4	0.2
	59006	City Hall 500 George St., Peterborough	96	0.1	0.3	0.4	0.7	1.0	2.2	2.4	0.5	0.3
SOUTH EAST	51001	McDonald Gdns., Rideau Wurtemburg St., Ottawa	46	0.1	0.3	0.4	0.5	0.8	1.1	1.1	0.4	0.3
	54013	Post Office Bldg. Belleville	45	0.2	0.5	0.7	1.2	2.1	4.0	4.5	1.0	0.6
	56051	Memorial Park York/Third St., Cornwall	48	0.2	0.3	0.4	0.7	1.1	1.6	2.0	0.5	0.4
NORTH WEST	63005	Hospital, Archibald/ Arthur St., Thunder Bay	54	0.2	0.7	1.2	1.7	3.1	4.8	4.9	1.5	0.9
	63022	Hospital, 35 Algoma St. N. Thunder Bay	52	0.1	0.4	0.9	1.4	2.4	3.6	4.8	1.1	0.6
NORTH EAST	71022	Sault College Queens St., Sault Ste. Marie	61	0.6	1.3	2.0	2.7	4.6	7.2	8.0	2.4	1.8
	71042	Bonney St. Pump House Sault Ste. Marie	71	1.5	3.9	5.7	10.0	11.7	13.8	15.7	6.5	5.0
	71049	Land Reg. Office Queen St., Sault Ste. Marie	68	0.1	0.4	0.7	1.0	1.7	3.8	5.6	0.9	0.5
	71066	Farwell Pumphouse Sault Ste. Marie	25	0.5	0.9	1.3	2.6	3.9	6.5	6.9	2.0	1.4
	75010	OPP Station North Bay	54	0.1	0.2	0.3	0.5	0.9	1.8	2.0	0.4	0.2
	77016	Ash St. Water Tank Sudbury	52	0.1	0.5	0.7	1.7	3.6	4.4	4.8	1.3	0.7
	77026	19 Lisgar St. Sudbury	51	0.3	0.6	1.0	1.4	3.6	4.5	5.1	1.3	0.9
	77070	Nickel St. Pump House Copper Cliff	54	0.2	0.7	1.5	2.4	3.7	5.8	7.2	1.7	1.2
	77076	Post Office Falconbridge	49	0.1	0.4	0.9	1.7	3.4	4.8	4.8	1.3	0.7

Table 21 **Summary of Data: Nickel in Total Suspended Particulate**

(all values in micrograms per cubic meter)

Ontario Criterion — 24 hour average: 2.0 ug/m³

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR
SOUTH WEST	12002	City Hall 444 Windsor Ave., Windsor	33	.001	.002	.003	.005	.012	.019	.020	.004	.002	NIL
	12005	7730 Riverside Dr. E. Windsor	52	.001	.001	.003	.006	.008	.017	.017	.004	.002	NIL
	12008	467 University Ave. W. Windsor	306	.001	.002	.004	.005	.009	.038	.084	.005	.002	NIL
	12010	Tecumseh Sewage Stn. Manning Rd., Windsor	33	.001	.001	.002	.003	.006	.013	.014	.003	.001	NIL

Table 21 — *Continued...*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR
NORTH EAST	12013	Filtration Plant, 3665 Wyandotte St. E., Windsor	56	.001	.002	.005	.009	.015	.021	.024	.006	.003	NIL
	12015	Sewage Plant Hwy. 18/Prospect, Windsor	57	.001	.001	.004	.006	.009	.016	.020	.004	.002	NIL
	13003	Post Office 10 Center St., Chatham	53	.001	.002	.003	.003	.006	.009	.009	.003	.002	NIL
	14001	General Hospital 220 Mitton St., Sarnia	34	.001	.001	.002	.005	.008	.015	.016	.004	.002	NIL
	14016	Opposite Lambton GS Hwy. 40, Courtright	328	.001	.002	.003	.005	.010	.024	.031	.005	.003	NIL
	14030	RR #1, West of The House, Corunna	56	.001	.001	.002	.003	.005	.008	.009	.002	.001	NIL
	14031	RR #1, West Side of Barn, Mooretown	55	.001	.001	.002	.002	.006	.015	.016	.002	.001	NIL
	14064	Centennial Park Front St./CN Tracks, Sarnia	49	.001	.002	.004	.008	.018	.047	.053	.008	.004	NIL
	15001	Western Fair Grounds King/Rectory, London	54	.001	.001	.002	.003	.003	.007	.008	.002	.001	NIL
	15009	Conservation Authority Longwoods	17	.001	.001	.001	.004	.020	.104	.138	.012	.001	NIL
WEST CENTRAL	22071	Experimental Farm Simcoe	55	.001	.001	.001	.003	.008	.097	.111	.007	.001	NIL
	26029	Trailer, Edna/ Frederick St., Kitchener	55	.001	.001	.002	.003	.006	.032	.065	.004	.001	NIL
	27008	71 King St. St. Catharines	56	.001	.001	.001	.003	.007	.012	.012	.002	.001	NIL
	27030	Killaly East/James Port Colborne	53	.013	.022	.047	.141	.379	1.383	1.480	.158	.055	NIL
	27037	North/Geneva St. St. Catharines	49	.011	.021	.049	.079	.195	.588	.696	.086	.045	NIL
	27056	Allendale Ave. Niagara Falls	14	.001	.001	.001	.001	.005	.011	.012	.002	.001	NIL
	28024	95 Inkerman St. Guelph	30	.001	.002	.002	.003	.004	.007	.008	.002	.002	NIL
	28025	Farquhar/Wyndham St. Guelph	10	.001	.001	.002	.004	.004	.005	.005	.002	.001	NIL
	29001	Hughson/Hunter Hamilton	55	.001	.001	.003	.007	.015	.030	.031	.006	.002	NIL
	29008	North Park Hamilton	315	.001	.001	.005	.008	.028	.063	.112	.009	.003	NIL
	29011	Burlington/Leeds Hamilton	48	.001	.004	.006	.009	.014	.018	.018	.007	.007	NIL
	29012	Burlington/Wellington Hamilton	46	.001	.003	.004	.007	.009	.019	.024	.005	.003	NIL
	29017	Chatham/Frid Hamilton	47	.003	.005	.008	.012	.020	.104	.253	.015	.007	NIL
	29025	Barton/Wentworth Hamilton	319	.001	.003	.005	.008	.017	.039	.043	.007	.004	NIL
	29067	450 Hughson St. N. Hamilton	56	.001	.001	.003	.006	.010	.015	.015	.004	.002	NIL
	29085	Upper Wellington/Inverness Hamilton	57	.001	.001	.001	.004	.009	.013	.013	.003	.001	NIL
CENTRAL	31058	Mosley/Leslie Sts. Toronto	346	.001	.001	.004	.006	.011	.021	.032	.005	.002	NIL
	31064	17 Berkshire Ave. Toronto	232	.001	.001	.001	.004	.008	.018	.050	.003	.001	NIL
	31103	26 Breadalbane Toronto Backup	39	.001	.001	.001	.001	.005	.014	.014	.002	.000	NIL
	31104	26 Breadalbane Toronto	335	.001	.001	.002	.005	.009	.018	.054	.003	.001	NIL
	31120	Junction Triangle Perth Ave. Toronto	44	.001	.001	.001	.005	.008	.024	.037	.003	.001	NIL
	31123	26 Breadalbane Toronto	37	.001	.001	.001	.004	.006	.016	.016	.003	.001	NIL
	31124	26 Breadalbane Toronto	37	.001	.001	.001	.001	.005	.009	.011	.002	.000	NIL
	33003	Lawrence/Kennedy Scarborough	107	.001	.001	.002	.004	.007	.081	.085	.006	.001	NIL
	34002	Science Centre 770 Don Mills Rd., North York	112	.001	.001	.001	.001	.004	.009	.014	.001	.000	NIL
	34007	Bathurst/Wilson North York	100	.001	.001	.001	.001	.004	.008	.009	.001	.000	NIL
	35003	Elmcrest Rd. Etobicoke	115	.001	.001	.001	.004	.006	.010	.020	.002	.001	NIL
	35033	Evans/Arnold Ave. Etobicoke	105	.001	.001	.001	.004	.008	.025	.026	.003	.001	NIL
	35037	3050 Lakeshore Blvd. W. Etobicoke	331	.001	.001	.004	.007	.011	.030	.091	.006	.002	NIL
	44008	Hwy. 2/North Shore Blvd. E. Burlington	47	.001	.001	.001	.001	.004	.012	.016	.001	.000	NIL
	44015	Bronte Rd./Woburn Cres. Oakville	45	.001	.001	.001	.001	.009	.013	.014	.002	.000	NIL

Table 21 — *Continued . . .*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR
CENTRAL	45001	Pickering Fire Hall Pickering	317	.001	.001	.001	.003	.007	.080	.093	.004	.001	NIL
	45011	Public Library Oshawa	109	.001	.001	.001	.003	.006	.011	.014	.002	.001	NIL
	45060	Lasco Hopkins St. S. Whitby	88	.001	.001	.004	.006	.012	.019	.019	.004	.001	NIL
	46025	Mississauga Public Library Mississauga	54	.001	.001	.001	.005	.009	.014	.019	.003	.001	NIL
	46033	Bramalea Fire Hall Bramalea	56	.001	.001	.001	.001	.007	.141	.149	.007	.001	NIL
	47042	Armoury Bldg., Park/ Parkside St., Barrie	102	.001	.001	.001	.001	.005	.014	.017	.001	.000	NIL
	59006	City Hall 500 George St., Peterborough	88	.001	.001	.001	.001	.004	.007	.008	.001	.000	NIL
SOUTH EAST	51001	McDonald Gdns., Rideau/ Wurtemburg St., Ottawa	46	.001	.001	.001	.003	.007	.010	.010	.002	.001	NIL
	54013	Post Office Bldg Belleville	45	.001	.001	.001	.004	.010	.050	.057	.005	.001	NIL
	56051	Memorial Park York/Third St., Cornwall	48	.001	.001	.001	.001	.004	.007	.008	.001	.000	NIL
NORTH WEST	63005	Hospital, Archibald/ Arthur St., Thunder Bay	54	.001	.001	.001	.003	.007	.011	.012	.002	.001	NIL
	63022	Hospital, 35 Algoma St. N. Thunder Bay	52	.001	.001	.001	.001	.003	.007	.008	.001	.000	NIL
NORTH EAST	71022	Sault College Queens St., Sault Ste. Marie	61	.001	.001	.001	.004	.007	.031	.035	.003	.001	NIL
	71042	Bonney St. Pump House Sault Ste. Marie	73	.001	.001	.001	.004	.008	.143	.150	.008	.001	NIL
	71049	Land Reg. Office Queen St., Sault Ste. Marie	68	.001	.001	.001	.001	.005	.010	.011	.010	.000	NIL
	71066	Farwell Pumphouse Sault Ste. Marie	25	.001	.001	.001	.001	.004	.006	.006	.001	.000	NIL
	75010	OPP Station North Bay	54	.001	.001	.001	.001	.003	.005	.006	.001	.000	NIL
	77016	Ash St. Water Tank Sudbury	49	.005	.010	.020	.050	.151	.486	.571	.061	.019	NIL
	77026	19 Lisgar St. Sudbury	51	.004	.015	.021	.051	.128	.384	.668	.059	.023	NIL
	77070	Nickel St. Pump House Copper Cliff	44	.009	.057	.094	.183	.404	.673	.917	.155	.080	NIL
	77076	Post Office Falconbridge	49	.008	.020	.030	.049	.092	.245	.290	.045	.028	NIL

Table 22 **Summary of Data: Copper in Total Suspended Particulate**

("all" values in micrograms per cubic meter)

Ontario Criterion — 24 hour average: 50 ug/m³

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR
SOUTH WEST	12002	City Hall 444 Windsor Ave., Windsor	33	.03	.04	.06	.07	.08	.10	.10	.06	.05	NIL
	12005	7730 Riverside Dr. E. Windsor	52	.01	.04	.06	.10	.17	.27	.29	.08	.05	NIL
	12008	467 University Ave. W. Windsor	328	.04	.08	.13	.30	.80	1.55	1.64	.29	.16	NIL
	12010	Tecumseh Sewage Stn. Manning Rd., Windsor	33	.04	.08	.09	.12	.19	.22	.22	.10	.09	NIL
	12013	Filtration Plant, 3665 Wyandotte St. E., Windsor	56	.07	.10	.14	.17	.23	.29	.34	.14	.13	NIL
	12015	Sewage Plant Hwy. 18/Prospect, Windsor	57	.04	.09	.13	.18	.27	.54	.75	.15	.12	NIL
	13003	Post Office 10 Center St., Chatham	55	.09	.12	.18	.24	.35	.52	.62	.20	.18	NIL
	14001	General Hospital 220 Mitton St., Sarnia	34	.09	.16	.26	.40	.58	.84	.93	.30	.23	NIL
	14016	Opposite Lambton GS Hwy. 40, Courtright	339	.06	.14	.27	.42	.76	1.34	1.72	.34	.21	NIL
	14030	RR #1, West of The House, Corunna	57	.05	.09	.14	.23	.33	.45	.49	.17	.13	NIL
	14031	RR #1, West Side of Barn, Mooretown	55	.10	.14	.19	.25	.38	1.29	1.54	.25	.19	NIL

Table 22 — *Continued ...*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR
SOUTH WEST	14064	Centennial Park Front St./CN Tracks, Sarnia	57	.09	27	42	.68	1.23	2.08	2.50	59	.38	NIL
	15001	Western Fair Grounds King/Rectory, London	57	.16	23	35	.48	.84	1.81	1.98	45	33	NIL
	15009	Conservation Authority Longwoods	17	.08	15	23	36	.47	55	56	27	20	NIL
WEST CENTRAL	22071	Experimental Farm Simcoe	55	.12	23	.40	.77	1.63	3.01	3.43	.72	.44	NIL
	26029	Trailer, Edna/ Frederick St., Kitchener	55	.08	10	.12	.16	.21	.37	.38	14	.13	NIL
	27008	71 King St. St. Catharines	56	.07	.10	13	24	.41	59	.62	19	.15	NIL
	27056	Allendale Ave. Niagara Falls	14	.14	.18	.21	.22	.25	35	.37	21	.20	NIL
	28024	95 Inkerman St. Guelph	30	.08	.54	1.06	1.38	1.54	1.77	1.79	.92	.62	NIL
	28025	Farquhar/Wyndham St. Guelph	10	.34	.43	.44	52	.59	61	.61	.46	45	NIL
	29001	Hughson/Hunter Hamilton	55	.05	08	.12	.17	.25	.37	.37	14	.12	NIL
	29008	North Park Hamilton	337	.13	.22	.33	.46	.82	1.37	2.51	.41	.32	NIL
	29011	Burlington/Leeds Hamilton	54	.22	.34	.45	78	1.10	1.28	1.29	.58	.48	NIL
	29012	Burlington/Wellington Hamilton	52	.21	.27	.37	.62	.93	1.02	1.02	.48	.37	NIL
	29017	Chatham/Frid Hamilton	55	.06	.10	13	.18	.38	81	1.46	19	.14	NIL
	29025	Barton/Wentworth Hamilton	328	.13	25	.35	45	.74	1.47	2.60	.41	.32	NIL
	29067	450 Hughson St. N. Hamilton	56	.07	09	12	18	.39	50	.52	.17	.13	NIL
	29085	Upper Wellington/Inverness Hamilton	57	.11	.15	.17	.21	.32	46	.55	.20	17	NIL
CENTRAL	31058	Mosley/Leslie Sts. Toronto	350	.07	13	.18	.25	39	1.54	2.06	.23	.17	NIL
	31064	17 Berkshire Ave. Toronto	243	11	18	26	40	62	98	2.17	.32	.36	NIL
	31103	26 Breadalbane Toronto Backup	39	10	12	16	.22	.28	33	.33	.18	15	NIL
	31104	26 Breadalbane Toronto	355	.07	11	.16	23	40	85	1.38	.21	16	NIL
	31120	Junction Triangle Perth Ave., Toronto	44	.07	.16	.21	25	.31	.40	41	.21	.17	NIL
	31123	26 Breadalbane Toronto	37	11	17	19	24	31	42	44	20	19	NIL
	31124	26 Breadalbane Toronto	37	17	31	39	45	57	62	64	38	34	NIL
	33003	Lawrence/Kennedy Scarborough	116	09	16	23	31	38	58	95	24	20	NIL
	34002	Science Centre 770 Don Mills Rd., North York	117	.06	09	.16	30	41	52	54	22	.16	NIL
	34007	Bathurst/Wilson North York	103	.04	.07	09	.11	19	32	64	.11	09	NIL
	35003	Elmcrest Rd. Etobicoke	115	.08	.16	.23	.36	.76	95	1.00	32	.24	NIL
	35033	Evans/Arnold Ave. Etobicoke	111	.05	09	.13	.17	.27	.75	.87	.15	.12	NIL
	35037	3050 Lakeshore Blvd. W. Etobicoke	332	.11	.17	.23	.31	.52	.91	1.54	.28	.23	NIL
	44008	Hwy. 2/North Shore Blvd. E. Burlington	47	.03	.06	.08	.11	.18	.26	.26	.09	.08	NIL
	44015	Bronte Rd./Woburn Cres. Oakville	45	.05	.12	.19	.37	.61	.83	.84	.27	.17	NIL
	45001	Pickering Fire Hall Pickering	318	.10	.19	.32	.47	.68	2.16	2.30	.39	.28	NIL
	45011	Public Library Oshawa	119	.04	.07	.16	.25	.35	.42	.52	.17	.12	NIL
	45060	Lasco Hopkins St. S. Whitby	88	.03	.05	.05	.08	.13	.19	.20	.07	.05	NIL
	46025	Mississauga Public Library Mississauga	54	.06	.11	.13	.20	.35	.54	.55	.18	.14	NIL
	46033	Bramalea Fire Hall Bramalea	56	.07	.12	.15	.22	.29	.42	.48	.18	.15	NIL
	47042	Armoury Bldg., Park/ Parkside St., Barrie	102	.06	.21	.27	.35	.44	.60	.68	.27	.19	NIL
	59006	City Hall 500 George St., Peterborough	96	.01	.13	.18	.23	.35	.59	.70	.19	.16	NIL
SOUTH EAST	51001	McDonald Gdns., Rideau/ Wurtemburg St., Ottawa	45	.10	.15	.61	.80	.90	1.20	1.23	.54	.38	NIL
	54013	Post Office Bldg. Belleville	45	.12	.18	.22	.29	.42	.83	.87	.26	.22	NIL

Table 22 — *Continued...*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR
SOUTH EAST	56051	Memorial Park York/Third St., Cornwall	48	.19	.23	.31	.38	.46	1.10	1.78	.35	.31	NIL
NORTH WEST	63005	Hospital, Archibald/ Arthur St., Thunder Bay	54	.08	.15	.20	.23	.30	.65	.66	.21	.18	NIL
	63022	Hospital, 35 Algoma St. N. Thunder Bay	52	.06	.11	.14	.19	.25	.34	.37	.15	.13	NIL
NORTH EAST	71022	Sault College Queens St., Sault Ste. Marie	61	.04	.06	.07	.10	.12	.13	.14	.08	.07	NIL
	71042	Bonney St. Pump House Sault Ste. Marie	73	.05	.07	.10	.12	.15	.19	.25	.10	.08	NIL
	71049	Land Reg. Office Queen St., Sault Ste. Marie	67	.13	.23	.28	.37	.47	.53	.53	.30	.26	NIL
	71066	Farwell Pumphouse Sault Ste. Marie	25	.04	.08	.11	.12	.18	.21	.22	.10	.09	NIL
	75010	OPP Station North Bay	54	.08	.18	.25	.36	.52	.73	.74	.29	.22	NIL
	77016	Ash St. Water Tank Sudbury	52	.20	.31	.38	.49	.76	1.60	1.60	.47	.39	NIL
	77026	19 Lisgar St. Sudbury	52	.10	.16	.21	.30	.68	.93	1.05	.29	.22	NIL
	77070	Nickel St. Pump House Copper Cliff	49	.16	.27	.36	.52	1.49	2.80	2.93	.60	.40	NIL
	77076	Post Office Falconbridge	49	.12	.16	.24	.35	.59	.85	.90	.30	.24	NIL

Table 23 **Summary of Data: Cadmium in Total Suspended Particulate**

(all values in micrograms per cubic meter)
Ontario Criterion — 24 hour average: 2.0 ug/m^3

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR
SOUTH WEST	12002	City Hall 444 Windsor Ave., Windsor	33	.001	.001	.001	.001	.004	.008	.009	.002	.001	NIL
	12005	7730 Riverside Dr. E. Windsor	52	.001	.001	.001	.002	.004	.009	.010	.002	.001	NIL
	12008	467 University Ave. W. Windsor	328	.001	.001	.001	.002	.004	.015	.025	.002	.002	NIL
	12010	Tecumseh Sewage Stn Manning Rd., Windsor	33	.001	.001	.001	.001	.002	.003	.004	.001	.001	NIL
	12013	Filtration Plant, 3665 Wyandotte St. E., Windsor	56	.001	.001	.001	.002	.005	.010	.011	.002	.001	NIL
	12015	Sewage Plant Hwy. 18/Prospect, Windsor	57	.001	.001	.002	.002	.005	.008	.009	.002	.001	NIL
	13003	Post Office 10 Center St., Chatham	55	.001	.001	.001	.001	.001	.004	.009	.001	.001	NIL
	14001	General Hospital 220 Mitton St., Sarnia	34	.001	.001	.001	.001	.001	.005	.009	.001	.001	NIL
	14016	Opposite Lambton GS Hwy. 40, Courtright	339	.001	.001	.001	.001	.001	.003	.004	.001	.001	NIL
	14030	RR #1, West of The House, Corunna	54	.001	.001	.001	.001	.001	.002	.004	.001	.001	NIL
	14031	RR #1, West Side of Barn, Mooretown	55	.001	.001	.001	.001	.001	.001	.001	.001	.001	NIL
	14064	Centennial Park Front St./CN Tracks, Sarnia	57	.001	.001	.001	.001	.001	.002	.003	.001	.001	NIL
	15001	Western Fair Grounds King/Rectory, London	57	.001	.001	.001	.001	.002	.007	.012	.001	.001	NIL
	15009	Conservation Authority Longwoods	17	.001	.001	.001	.004	.004	.004	.004	.002	.001	NIL
WEST CENTRAL	22071	Experimental Farm Simcoe	55	.001	.001	.001	.001	.002	.003	.004	.001	.001	NIL
	26029	Trailer, Edna/ Frederick St., Kitchener	55	.001	.001	.001	.001	.001	.001	.002	.001	.001	NIL
	27008	71 King St. St. Catharines	56	.001	.001	.001	.001	.001	.005	.009	.001	.001	NIL
	27056	Allendale Ave. Niagara Falls	14	.001	.001	.001	.001	.003	.004	.004	.001	.001	NIL
	28024	95 Inkerman St. Guelph	30	.001	.001	.001	.001	.002	.009	.013	.002	.001	NIL
	28025	Farquhar/Wyndham St. Guelph	10	.001	.001	.001	.001	.002	.003	.003	.001	.001	NIL
	29001	Hughson/Hunter Hamilton	55	.001	.001	.001	.002	.003	.012	.028	.002	.001	NIL

Table 23 — *Continued ...*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR
WEST CENTRAL	29008	North Park Hamilton	337	.001	.001	.001	.001	.002	.004	.006	.001	.001	NIL
	29011	Burlington/Leeds Hamilton	54	.001	.001	.001	.002	.003	.004	.004	.002	.001	NIL
	29012	Burlington/Wellington Hamilton	52	.001	.001	.001	.001	.002	.007	.011	.001	.001	NIL
	29017	Chatham/Frid Hamilton	55	.001	.001	.001	.001	.002	.003	.004	.001	.001	NIL
	29025	Barton/Wentworth Hamilton	328	.001	.001	.001	.002	.003	.009	.020	.002	.001	NIL
	29067	450 Hughson St. N. Hamilton	56	.001	.001	.001	.001	.002	.003	.003	.001	.001	NIL
	29085	Upper Wellington/Inverness Hamilton	57	.001	.001	.001	.001	.002	.005	.007	.001	.001	NIL
CENTRAL	31058	Mosley/Leslie Sts. Toronto	350	.001	.001	.002	.004	.008	.022	.028	.004	.002	NIL
	31064	17 Berkshire Ave. Toronto	243	.001	.001	.002	.003	.006	.016	.022	.003	.002	NIL
	31103	26 Breadalbane Toronto Backup	39	.001	.001	.001	.002	.004	.005	.005	.001	.001	NIL
	31104	26 Breadalbane Toronto	354	.001	.001	.001	.002	.003	.006	.007	.001	.001	NIL
	31120	Junction Triangle Perth Ave., Toronto	101	.001	.001	.001	.002	.004	.008	.071	.002	.001	NIL
	31123	26 Breadalbane Toronto	37	.001	.001	.001	.003	.004	.008	.010	.002	.002	NIL
	31124	26 Breadalbane Toronto	37	.001	.001	.001	.002	.003	.004	.004	.001	.001	NIL
	33003	Lawrence/Kennedy Scarborough	116	.001	.001	.001	.001	.003	.007	.010	.001	.001	NIL
	34002	Science Centre 770 Don Mills Rd., North York	116	.001	.001	.001	.002	.003	.006	.018	.001	.001	NIL
	34007	Bathurst/Wilson North York	103	.001	.001	.001	.002	.003	.007	.007	.001	.001	NIL
	35033	Elmcrest Rd Etobicoke	115	.001	.001	.001	.002	.006	.015	.029	.002	.001	NIL
	35003	Evans/Arnold Ave. Etobicoke	113	.001	.001	.002	.002	.004	.009	.048	.002	.001	NIL
	35037	3050 Lakeshore Blvd. W. Etobicoke	321	.001	.002	.003	.010	.035	.225	.380	.016	.004	NIL
	44008	Hwy. 2/North Shore Blvd. E. Burlington	47	.001	.001	.001	.001	.001	.002	.003	.000	.001	NIL
	44015	Bronte Rd./Woburn Cres. Oakville	45	.001	.001	.001	.001	.002	.003	.003	.001	.001	NIL
	45001	Pickering Fire Hall Pickering	318	.001	.001	.001	.001	.002	.005	.008	.001	.001	NIL
	45011	Public Library Oshawa	117	.001	.001	.001	.001	.002	.003	.004	.001	.001	NIL
	45060	Lasco Hopkins St. S. Whitby	88	.001	.001	.002	.005	.012	.027	.030	.004	.001	NIL
	46025	Mississauga Public Library Mississauga	54	.001	.001	.001	.002	.003	.011	.021	.002	.001	NIL
	46033	Bramalea Fire Hall Bramalea	56	.001	.001	.001	.002	.003	.007	.008	.001	.001	NIL
	47042	Armoury Bldg., Park/ Parkside St., Barrie	102	.001	.001	.001	.001	.001	.006	.013	.001	.001	NIL
	59006	City Hall 500 George St., Peterborough	96	.001	.001	.001	.001	.001	.009	.017	.001	.001	NIL
SOUTH EAST	51001	McDonald Gdns., Rideau/ Wurtemburg St., Ottawa	46	.001	.001	.001	.001	.001	.001	.002	.001	.001	NIL
	54013	Post Office Bldg. Belleville	45	.001	.001	.001	.001	.001	.003	.003	.001	.001	NIL
	56051	Memorial Park York/Third St., Cornwall	48	.001	.001	.001	.002	.002	.003	.004	.001	.001	NIL
NORTH WEST	63005	Hospital, Archibald/ Arthur St., Thunder Bay	54	.001	.001	.001	.001	.001	.001	.001	.001	.001	NIL
	63022	Hospital, 35 Algoma St. N. Thunder Bay	52	.001	.001	.001	.001	.001	.002	.005	.001	.001	NIL
NORTH EAST	71022	Sault College Queens St., Sault Ste. Marie	61	.001	.001	.001	.002	.002	.003	.004	.001	.001	NIL
	71042	Bonney St. Pump House Sault Ste. Marie	73	.001	.001	.001	.001	.002	.002	.003	.001	.001	NIL
	71049	Land Reg. Office Queen St., Sault Ste. Marie	68	.001	.001	.001	.001	.001	.002	.002	.001	.001	NIL
	71066	Farwell Pumphouse Sault Ste. Marie	25	.001	.001	.001	.001	.002	.002	.002	.001	.001	NIL
	75010	OPP Station North Bay	54	.001	.001	.001	.001	.002	.003	.003	.001	.001	NIL

Table 23 — *Continued . . .*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR
NORTH EAST	77016	Ash St. Water Tank Sudbury	51	.001	.001	.001	.002	.006	.013	.016	.002	.001	NIL
	77026	19 Lisgar St. Sudbury	27	.001	.001	.002	.003	.006	.012	.016	.003	.001	NIL
	77070	Nickel St. Pump House Copper Cliff	26	.001	.001	.001	.001	.007	.018	.023	.002	.001	NIL
	77076	Post Office Falconbridge	26	.001	.001	.001	.003	.007	.033	.038	.004	.001	NIL

Table 24 **Summary of Data: Chromium in Total Suspended Particulate (all values in micrograms per cubic meter)**

Ontario Criterion — 24 hour average: 1.5 ug/m^3

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GRAM. MEAN	TIMES ABOVE CRITERION 24 HR
SOUTH WEST	12002	City Hall 444 Windsor Ave., Windsor	33	.001	.002	.004	.005	.007	.013	.016	.004	.002	NIL
	12005	7730 Riverside Dr. E. Windsor	48	.001	.001	.001	.003	.006	.011	.011	.002	.001	NIL
	12008	467 University Ave. W. Windsor	328	.001	.002	.004	.005	.007	.012	.015	.004	.002	NIL
	12010	Tecumseh Sewage Stn. Manning Rd., Windsor	33	.001	.001	.002	.003	.004	.007	.009	.002	.001	NIL
	12013	Filtration Plant, 3665 Wyandotte St. E., Windsor	56	.001	.001	.005	.012	.021	.036	.044	.009	.003	NIL
	12015	Sewage Plant Hwy. 18/Prospect, Windsor	57	.001	.001	.002	.005	.011	.019	.020	.004	.001	NIL
	13003	Post Office 10 Center St., Chatham	55	.001	.001	.001	.003	.008	.014	.020	.003	.001	NIL
	14001	General Hospital 220 Mitton St., Sarnia	34	.001	.001	.002	.003	.006	.019	.022	.003	.002	NIL
	14016	Opposite Lambton GS Hwy. 40, Courtright	332	.001	.001	.001	.002	.005	.011	.015	.002	.001	NIL
	14030	RR #1, West of The House, Corunna	55	.001	.001	.002	.003	.006	.015	.018	.003	.001	NIL
	14031	RR #1, West Side of Barn, Mooretown	53	.001	.001	.001	.002	.006	.011	.012	.002	.001	NIL
	14064	Centennial Park Front St./CN Tracks, Sarnia	57	.001	.001	.001	.003	.006	.008	.009	.002	.001	NIL
	15001	Western Fair Grounds King/Rectory, London	57	.001	.001	.003	.004	.006	.011	.013	.003	.002	NIL
	15009	Conservation Authority Longwoods	17	.001	.001	.001	.006	.009	.013	.013	.003	.001	NIL
WEST CENTRAL	22071	Experimental Farm Simcoe	50	.001	.001	.001	.001	.001	.009	.010	.001	.001	NIL
	26029	Trailer, Edna/ Frederick St., Kitchener	54	.001	.001	.001	.003	.008	.017	.018	.003	.001	NIL
	27008	71 King St. St. Catharines	56	.001	.001	.001	.004	.007	.013	.014	.003	.001	NIL
	27056	Allendale Ave. Niagara Falls	14	.001	.001	.006	.009	.012	.013	.013	.006	.002	NIL
	28024	95 Inkerman St. Guelph	30	.001	.001	.001	.005	.015	.040	.046	.006	.002	NIL
	28025	Farquhar/Wyndham St. Guelph	10	.001	.001	.001	.002	.006	.006	.006	.002	.001	NIL
	29001	Hughson/Hunter Hamilton	53	.001	.003	.007	.012	.021	.031	.039	.009	.004	NIL
	29008	North Park Hamilton	337	.001	.004	.008	.012	.020	.034	.045	.009	.004	NIL
	29011	Burlington/Leeds Hamilton	54	.006	.010	.018	.024	.032	.049	.056	.019	.013	NIL
	29012	Burlington/Wellington Hamilton	52	.001	.003	.007	.010	.019	.028	.028	.008	.003	NIL
	29017	Chatham/Frid Hamilton	54	.001	.005	.008	.011	.017	.026	.027	.009	.004	NIL
	29025	Barton/Wentworth Hamilton	328	.001	.004	.007	.015	.031	.073	.100	.013	.005	NIL
	29067	450 Hughson St. N. Hamilton	56	.001	.001	.005	.009	.017	.020	.022	.006	.002	NIL
	29085	Upper Wellington/Inverness Hamilton	57	.001	.001	.001	.004	.011	.028	.035	.004	.001	NIL
CENTRAL	31058	Mosley/Leslie St. Toronto	350	.001	.004	.009	.015	.033	.093	.233	.014	.005	NIL

Table 24 — *Continued . . .*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24 HR
CENTRAL	31064	17 Berkshire Ave Toronto	242	001	001	008	015	031	100	304	015	004	NIL
	31103	26 Breadalbane Toronto Backup	39	001	001	001	004	011	026	031	004	001	NIL
	31104	26 Breadlbane Toronto	355	001	002	005	008	013	021	035	006	003	NIL
	31120	Junction Triangle Perth Ave., Toronto	44	001	001	001	001	006	020	022	002	001	NIL
	31123	26 Breadalbane Toronto	37	001	001	001	005	009	022	025	004	001	NIL
	31124	26 Breadalbane Toronto	37	001	001	001	001	012	020	021	003	001	NIL
	33003	Lawrence/Kennedy Scarborough	109	001	001	002	006	010	015	152	005	001	NIL
	34002	Science Centre 770 Don Mills Rd., North York	115	001	001	002	005	009	019	020	004	002	NIL
	34007	Bathurst/Wilson North York	94	001	001	003	006	007	015	021	004	002	NIL
	35003	Elmcrest Rd Etobicoke	114	001	001	001	006	013	160	210	008	001	NIL
	35033	Evans/Arnold Ave Etobicoke	100	001	001	003	006	010	016	016	004	002	NIL
	35037	3050 Lakeshore Blvd W Etobicoke	332	001	001	008	014	029	133	545	015	003	NIL
	44008	Hwy 2/North Shore Blvd E Burlington	46	001	001	001	001	003	026	029	002	001	NIL
	44015	Bronte Rd/Woburn Cres Oakville	45	001	001	001	001	001	004	014	001	001	NIL
	45001	Pickering Fire Hall Pickering	309	001	001	001	002	006	020	179	003	001	NIL
	45011	Public Library Oshawa	117	001	001	001	004	010	014	021	003	001	NIL
	45060	Lasco Hopkins St S Whitby	88	001	001	011	023	059	116	200	021	003	NIL
	46025	Mississauga Public Library Mississauga	54	001	001	003	008	012	028	034	006	002	NIL
	46033	Bramalea Fire Hall Bramalea	56	001	001	003	007	013	016	017	005	002	NIL
	47042	Armoury Bldg., Park/ Parkside St., Barrie	100	001	001	001	003	010	021	022	003	001	NIL
	59006	City Hall 500 George St., Peterborough	92	001	001	002	004	008	015	019	003	001	NIL
SOUTH EAST	51001	McDonald Gdns., Rideau/ Wurtemburg St., Ottawa	46	001	001	001	003	007	011	012	002	001	NIL
	54013	Post Office Bldg Belleville	42	001	001	001	004	007	013	014	003	001	NIL
	56051	Memorial Park York, Third St., Cornwall	45	001	001	001	004	007	014	014	003	001	NIL
NORTH WEST	63005	Hospital, Archibald/ Arthur St., Thunder Bay	53	001	001	001	001	003	012	014	001	001	NIL
	63022	Hospital, 35 Algoma St N Thunder Bay	52	001	001	001	001	005	008	009	001	001	NIL
NORTH EAST	71022	Sault College Queens St., Sault Ste. Marie	61	001	004	007	010	016	030	031	008	004	NIL
	71042	Bonney St. Pump House Sault Ste. Marie	73	001	006	011	018	027	053	127	014	006	NIL
	71049	Land Reg. Office Queen St., Sault Ste. Marie	34	001	001	001	001	002	004	004	001	001	NIL
	71066	Farwell Pumphouse Sault Ste. Marie	25	001	001	001	003	006	012	013	002	011	NIL
	75010	OPP Station North Bay	50	001	001	001	001	006	017	019	002	001	NIL
	77016	Ash St. Water Tank Sudbury	49	001	001	002	005	021	033	033	006	001	NIL
	77026	19 Lisgar St Sudbury	27	001	001	001	004	023	027	028	006	001	NIL
	77070	Nickel St. Pump House Copper Cliff	27	001	001	001	006	026	038	039	007	001	NIL
	77076	Post Office Falconbridge	26	001	001	001	001	002	030	032	002	001	NIL

Table 25 **Summary of Data: Zinc in Total Suspended Particulate (all values in micrograms per cubic meter)**
No Ontario Criteria

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN
SOUTH WEST	12002	City Hall 444 Windsor Ave., Winsor	26	1	1	1	1	2	3	3	.1	.1
	12005	7730 Riverside Dr. E Windsor	41	1	1	1	1	2	4	4	1	1
	12008	467 University Ave. W Windsor	257	1	1	1	2	3	6	7	2	1
	12010	Tecumseh Sewage Stn Manning Rd., Windsor	33	1	1	1	1	2	4	4	1	1
	12013	Filtration Plant, 3665 Wyandotte St. E., Windsor	48	1	1	2	3	6	14	15	3	2
	12015	Sewage Plant Hwy. 18/Prospect, Windsor	47	1	1	2	3	4	7	8	2	1
	13003	Post Office 10 Center St., Chatham	47	1	1	1	1	1	3	7	1	1
	14001	General Hospital 220 Mitton St., Sarnia	29	1	1	1	1	2	4	4	1	1
	14016	Opposite Lambton GS Hwy. 40, Courtright	158	1	1	1	1	8	29	31	3	1
	14030	RR #1, West of The House, Corunna	53	1	1	1	1	1	2	2	1	1
	14031	RR #1, West Side of Barn, Mooretown	45	1	1	1	1	3	15	15	2	1
	14064	Centennial Park Front St./CN Tracks, Sarnia	57	1	1	1	1	2	5	6	1	1
	15001	Western Fair Grounds King Rectory, London	56	1	1	1	1	2	4	7	1	1
	15009	Conservation Authority Longwoods	10	1	1	1	1	1	1	1	1	1
WEST CENTRAL	22071	Experimental Farm Simcoe	52	1	1	1	1	1	1	2	1	1
	26029	Trailer, Edna/ Frederick St., Kitchener	52	1	1	1	1	2	8	24	2	1
	27008	71 King St St. Catharines	49	1	1	1	1	2	2	3	1	1
	27056	Allendale Ave Niagara Falls	14	1	1	1	1	2	2	2	1	1
	28024	95 Inkerman St Guelph	21	1	9	11	13	15	17	18	9	5
	28025	Farquhar/Wyndham St. Guelph	10	1	1	1	1	1	3	3	1	1
	29001	Hughson/Hunter Hamilton	51	1	1	2	4	11	17	20	4	2
	29008	North Park Hamilton	306	1	1	2	3	5	11	13	2	1
	29011	Burlington/Leeds Hamilton	49	1	2	4	6	8	14	18	4	3
	29012	Burlington/Wellington Hamilton	45	1	1	1	1	3	7	8	1	1
	29017	Chatham/Frid Hamilton	50	1	1	1	2	4	6	8	2	1
	29025	Barton/Wentworth Hamilton	268	1	1	1	3	5	15	17	2	2
	29067	450 Hughson St. N. Hamilton	49	1	1	1	1	3	6	6	2	1
	29085	Upper Wellington/Inverness Hamilton	52	1	1	1	2	3	8	13	2	1
CENTRAL	31058	Mosley/Leslie Sts Toronto	88	1	1	1	2	4	31	33	3	1
	31064	17 Berkshire Ave. Toronto	128	1	1	1	3	5	19	22	2	1
	31103	26 Breadalbane Toronto Backup	39	1	1	1	2	3	6	7	2	2
	31104	26 Breadalbane Toronto	245	1	1	1	2	3	4	7	1	1
	31120	Junction Triangle Perth Ave., Toronto	50	1	1	1	1	4	6	7	2	1
	31123	26 Breadalbane Toronto	27	1	1	1	2	3	5	6	2	1
	31124	26 Breadalbane Toronto	29	1	1	1	2	3	4	4	2	1
	33003	Lawrence/Kennedy Scarborough	91	1	1	1	1	2	3	3	1	1
	34002	Science Centre 770 Don Mills Rd., North York	81	1	1	1	1	2	4	5	1	1
	34007	Bathurst/Wilson North York	67	1	1	1	2	3	5	10	1	1
	35003	Elmcrest Rd. Etobicoke	59	1	1	2	3	3	5	6	2	2

Table 25 — *Continued...*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN
	35033	Evans/Arnold Ave Etobicoke	92	.1	1	2	2	3	5	8	2	1
	35037	3050 Lakeshore Blvd. W. Etobicoke	178	.1	2	3	4	11	19	26	4	3
	44008	Hwy. 2/North Shore Blvd. E Burlington	39	.1	.1	1	1	2	3	4	1	1
	44015	Bronte Rd./Woburn Cres Oakville	44	.1	.1	1	3	3	5	5	2	1
	45001	Pickering Fire Hall Pickering	268	.1	.1	1	1	2	7	9	1	1
	45011	Public Library Oshawa	51	.1	1	1	1	2	4	6	1	1
	45060	Lasco Hopkins St. S Whitby	50	.1	.3	4	1.2	2.0	5.0	7.0	1.0	5
	46025	Mississauga Public Library Mississauga	48	.1	.1	1	1	3	5	5	1	1
	46033	Bramalea Fire Hall Bramalea	51	.1	.1	.1	2	4	7	8	2	1
	47042	Armoury Bldg., Park/ Parkside St., Barrie	54	.1	.1	1	1	1	2	3	1	1
	59006	City Hall 500 George St., Peterborough	79	.1	.1	1	2	2	2	4	1	1
SOUTH EAST	54013	Post Office Bldg. Belleville	37	.1	.1	1	1	2	4	4	1	1
	56051	Memorial Park York/Third St., Cornwall	8	.1	.1	.1	.1	1	.1	.1	1	1
NORTH WEST	63005	Hospital, Archibald/ Arthur St., Thunder Bay	54	.1	.1	.1	.1	3	.3	.3	1	1
	63022	Hospital, 35 Algoma St. N. Thunder Bay	50	.1	.1	.1	.1	2	4	5	1	1
NORTH EAST	71042	Bonney St. Pump House Sault Ste. Marie	44	1	.1	1	.2	3	.5	5	1	.1
	71049	Land Reg. Office Queen St., Sault Ste. Marie	67	.1	.1	1	1	2	.5	9	1	1
	75010	OPP Station North Bay	54	.1	.1	1	.2	2	3	.4	1	.1
	77016	Ash St. Water Tank Sudbury	48	1	.1	1	1	3	1.1	1.3	2	1
	77070	Nickel St. Pump House Copper Cliff	54	.1	.1	1	.2	2	.4	.5	1	1
	77076	Post Office Falconbridge	49	.1	.1	.1	.1	.3	.4	.4	.1	.0

Table 26 **Summary of Data: Manganese in Total Suspended Particulate (all values in micrograms per cubic meter)**

Ontario Criterion — 24 hour average: 50.0 ug/m^3

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24 HR
SOUTH WEST	12002	City Hall 444 Windsor Ave., Windsor	33	.023	.030	.038	.050	.068	.104	.114	.044	.039	NIL
	12005	7730 Riverside Dr. E Windsor	52	.009	.017	.025	.032	.048	.095	.106	.029	.018	NIL
	12008	467 University Ave. W. Windsor	328	.016	.026	.037	.050	.077	.148	.169	.043	.034	NIL
	12010	Tecumseh Sewage Stn. Manning Rd., Windsor	33	.007	.011	.017	.020	.031	.038	.038	.018	.015	NIL
	12013	Filtration Plant, 3665 Wyandotte St. E., Windsor	56	.021	.035	.061	.133	.315	.954	1.139	.149	.064	NIL
	12015	Sewage Plant Hwy. 18/Prospect, Windsor	57	.018	.040	.055	.077	.105	.137	.140	.060	.043	NIL
	13003	Post Office 10 Center St., Chatham	55	.002	.011	.018	.024	.040	.064	.067	.021	.012	NIL
	14001	General Hospital 220 Mitton St., Sarnia	34	.003	.015	.025	.035	.052	.094	.117	.026	.016	NIL
	14016	Opposite Lambton GS Hwy. 40, Courtright	339	.001	.008	.011	.017	.027	.056	.115	.014	.008	NIL
	14030	RR #1, West of The House, Corunna	56	.001	.006	.010	.017	.023	.030	.031	.012	.007	NIL
	14031	RR #1, West Side of Barn, Mooretown	55	.001	.006	.012	.020	.031	.039	.040	.014	.007	NIL
	14064	Centennial Park Front St./CN Tracks, Sarnia	59	.010	.017	.023	.037	.048	.098	.133	.029	.022	NIL

Table 26 — *Continued . . .*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24 HR
SOUTH WEST	15001	Western Fair Grounds King/Rectory, London	57	.013	.017	.028	.037	.052	.079	.111	.031	.026	NIL
	15009	Conservation Author.ty Longwoods	17	.009	.019	.022	.039	.059	.103	.114	.033	.025	NIL
WEST CENTRAL	22071	Experimental Farm Simcoe	56	.006	.012	.014	.027	.048	.087	.094	.023	.014	NIL
	26029	Trailer, Edna/ Frederick St., Kitchener	55	.015	.024	.034	.048	.078	.166	.226	.042	.029	NIL
	27008	71 King St St. Catharines	56	.015	.028	.038	.053	.075	.146	.177	.045	.030	NIL
	27056	Allendale Ave Niagara Falls	14	.009	.014	.019	.025	.035	.039	.039	.020	.014	NIL
	28024	95 Inkerman St Guelph	30	.001	.017	.029	.065	.191	.258	.282	.062	.022	NIL
	28025	Farquhar/Wyndham St. Guelph	10	.014	.027	.030	.039	.055	.112	.121	.039	.030	NIL
	29001	Hughson/Hunter Hamilton	55	.016	.035	.053	.087	.300	.562	.696	.111	.056	NIL
	29008	North Park Hamilton	337	.046	.096	.169	.267	.478	.760	.981	.223	.158	NIL
	29011	Burlington/Leeds Hamilton	54	.107	.209	.259	.425	.787	.944	.984	.358	.282	NIL
	29012	Burlington/Wellington Hamilton	52	.042	.065	.089	.126	.348	.595	.606	.139	.100	NIL
	29017	Chatham/Frid Hamilton	55	.047	.075	.105	.136	.259	.405	.432	.131	.105	NIL
	29025	Barton/Wentworth Hamilton	317	.041	.077	.110	.213	.533	.917	1.490	.208	.128	NIL
	29067	450 Hughson St. N Hamilton	56	.015	.033	.048	.081	.173	.348	.364	.079	.045	NIL
	29085	Upper Wellington/Inverness Hamilton	57	.019	.031	.057	.115	.184	.511	.597	.100	.062	NIL
CENTRAL	31058	Mosley/Leslie Sts Toronto	349	.011	.025	.037	.052	.098	.257	.685	.050	.030	NIL
	31064	17 Berkshire Ave Toronto	243	.007	.022	.036	.051	.089	.171	.500	.044	.026	NIL
	31103	26 Breadalbane Toronto Backup	39	.008	.021	.028	.039	.068	.100	.109	.033	.020	NIL
	31104	26 Breadalbane Toronto	355	.004	.022	.032	.044	.067	.116	.650	.037	.021	NIL
	31120	Junction Triangle Perth Ave., Toronto	107	.013	.019	.028	.043	.089	.139	.156	.039	.028	NIL
	31123	26 Breadalbane Toronto	37	.018	.024	.032	.038	.071	.093	.098	.036	.028	NIL
	31124	26 Breadalbane Toronto	37	.014	.018	.023	.032	.048	.085	.094	.028	.020	NIL
	33003	Lawrence/Kennedy Scarborough	116	.012	.023	.032	.043	.071	.098	.107	.037	.026	NIL
	34002	Science Centre 770 Don Mills Rd., North York	117	.004	.012	.021	.033	.058	.089	.100	.027	.017	NIL
	34007	Bathurst/Wilson North York	102	.012	.031	.047	.060	.086	.116	.143	.048	.034	NIL
	35003	Elmcrest Rd Etobicoke	115	.001	.014	.021	.037	.069	.506	.670	.040	.012	NIL
	35033	Evans/Arnold Ave. Etobicoke	110	.010	.026	.039	.053	.078	.136	.260	.044	.027	NIL
	35037	3050 Lakeshore Blvd. W Etobicoke	332	.001	.017	.028	.039	.060	.163	.608	.034	.015	NIL
	44008	Hwy. 2/North Shore Blvd. E. Burlington	47	.026	.037	.055	.082	.120	.535	.990	.086	.058	NIL
	44015	Bronte Rd./Woburn Cres. Oakville	45	.001	.020	.027	.035	.050	.080	.080	.029	.015	NIL
	45001	Pickering Fire Hall Pickering	318	.007	.015	.022	.030	.053	.083	.436	.027	.018	NIL
	45011	Public Library Oshawa	119	.007	.017	.027	.040	.075	.126	.131	.034	.019	NIL
	45060	Lasco Hopkins St. S. Whitby	69	.024	.051	.142	.273	.677	1.245	1.530	.251	.101	NIL
	46025	Mississauga Public Library Mississauga	54	.019	.034	.047	.065	.103	.156	.199	.055	.044	NIL
	46033	Bramalea Fire Hall Bramalea	56	.012	.025	.039	.057	.079	.128	.130	.045	.035	NIL
	47042	Armoury Bldg., Park/ Parkside St. Barrie	102	.001	.013	.022	.036	.059	.085	.093	.027	.010	NIL
	59006	City Hall 500 George St., Peterborough	97	.001	.010	.018	.029	.046	.138	.360	.025	.010	NIL
SOUTH EAST	51001	McDonald Gdns., Rideau Wurtemburg St., Ottawa	46	.008	.013	.018	.023	.035	.050	.059	.020	.017	NIL
	54013	Post Office Bldg. Belleville	45	.009	.017	.028	.041	.065	.124	.144	.034	.025	NIL

Table 26 — *Continued . . .*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24 HR
SOUTH EAST	56051	Memorial Park York/Third St., Cornwall	48	013	018	027	038	067	120	162	035	026	NIL
NORTH WEST	63005	Hospital, Archibald/ Arthur St., Thunder Bay	54	006	018	027	045	065	114	123	033	021	NIL
	63022	Hospital, 35 Algoma St. N. Thunder Bay	52	004	015	023	032	047	082	093	026	015	NIL
NORTH EAST	71022	Sault College Queens St., Sault Ste. Marie	61	036	105	178	248	465	1 250	1 330	238	153	NIL
	71042	Bonney St. Pump House Sault Ste. Marie	64	121	282	458	586	866	1 324	1 500	480	374	NIL
	71049	Land Reg. Office Queen St., Sault Ste. Marie	68	009	025	040	069	120	227	287	054	032	NIL
	71066	Farwell Pumphouse Sault Ste. Marie	25	032	068	094	120	251	453	531	124	093	NIL
	75010	OPP Station North Bay	54	001	008	013	019	037	059	065	016	007	NIL
	77016	Ash St. Water Tank Sudbury	52	001	002	010	017	031	044	050	013	004	NIL
	77026	19 Lisgar St. Sudbury	27	001	002	013	025	034	057	065	016	005	NIL
	77070	Nickel St. Pump House Copper Cliff	27	001	001	001	012	020	033	035	007	001	NIL
	77076	Post Office Falconbridge	26	001	001	001	003	019	026	027	005	001	NIL

Table 27 **Summary of Data: Vanadium in Total Suspended Particulate (all values in micrograms per cubic meter)**

Ontario Criterion — 24 hour average: 2.0 ug/m^3

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR
SOUTH WEST	12002	City Hall 444 Windsor Ave., Windsor	33	.001	.001	.002	.003	.004	.010	.010	.002	.001	NIL
	12005	7730 Riverside Dr. E. Windsor	50	.001	.001	.001	.001	.008	.043	.146	.004	.001	NIL
	12008	467 University Ave. W. Windsor	328	.001	.001	.002	.005	.009	.040	.171	.005	.002	NIL
	12010	Tecumseh Sewage Stn. Manning Rd., Windsor	33	.001	.002	.002	.004	.011	.021	.022	.005	.003	NIL
	12013	Filtration Plant, 3665 Wyandotte St. E., Windsor	56	.001	.001	.001	.002	.012	.019	.020	.003	.001	NIL
	12015	Sewage Plant Hwy. 18/Prospect, Windsor	57	.001	.001	.001	.005	.013	.051	.067	.006	.001	NIL
	13003	Post Office 10 Center St., Chatham	55	.001	.001	.002	.006	.019	.071	.073	.008	.002	NIL
	14001	General Hospital 220 Mitton St., Sarnia	34	.001	.001	.002	.006	.009	.023	.026	.004	.002	NIL
	14016	Opposite Lambton GS Hwy. 40, Courtright	338	.001	.002	.004	.008	.021	.154	.213	.011	.003	NIL
	14030	RR #1, West of The House, Corunna	57	.001	.001	.002	.003	.006	.013	.019	.003	.001	NIL
	14031	RR #1, West Side of Barn, Mooretown	55	.001	.001	.002	.004	.007	.022	.034	.003	.001	NIL
	14064	Centennial Park Front St./CN Tracks, Sarnia	54	.001	.002	.005	.011	.037	.106	.170	.014	.004	NIL
	15001	Western Fair Grounds King/Rectory, London	56	.001	.001	.001	.003	.008	.018	.019	.003	.001	NIL
	15009	Conservation Authority Longwoods	17	.001	.001	.001	.001	.003	.006	.007	.001	.001	NIL
WEST CENTRAL	22071	Experimental Farm Simcoe	55	.001	.001	.001	.002	.007	.030	.073	.003	.001	NIL
	26029	Trailer, Edna/ Frederick St., Kitchener	55	.001	.001	.001	.003	.008	.025	.032	.003	.001	NIL
	27008	71 King St. St. Catharines	56	.001	.001	.001	.002	.006	.012	.013	.002	.001	NIL
	27056	Allendale Ave. Niagara Falls	14	.001	.001	.001	.001	.023	.047	.050	.007	.001	NIL
	28024	95 Inkerman St. Guelph	30	.001	.001	.001	.001	.003	.006	.007	.001	.001	NIL
	28025	Farquhar/Wyndham St. Guelph	10	.001	.001	.001	.002	.005	.006	.006	.002	.001	NIL
	29001	Hughson/Hunter Hamilton	55	.001	.001	.002	.006	.014	.032	.034	.005	.001	NIL

Table 27 — *Continued . . .*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR
WEST CENTRAL	29008	North Park Hamilton	337	.001	.001	.004	.008	.017	.040	.075	.007	.003	NIL
	29011	Burlington/Leeds Hamilton	54	.001	.001	.002	.006	.011	.020	.020	.005	.002	NIL
	29012	Burlington/Wellington Hamilton	52	.001	.002	.005	.008	.011	.017	.018	.005	.003	NIL
	29017	Chatham/Frid Hamilton	55	.001	.001	.005	.009	.021	.038	.049	.008	.003	NIL
	29025	Barton/Wentworth Hamilton	327	.001	.002	.005	.009	.017	.036	.043	.007	.003	NIL
	29067	450 Hughson St. N. Hamilton	56	.001	.001	.003	.007	.013	.122	.139	.009	.002	NIL
	29085	Upper Wellington/Inverness Hamilton	57	.001	.001	.002	.005	.009	.073	.126	.006	.001	NIL
CENTRAL	31058	Mosley/Leslie Sts. Toronto	350	.001	.001	.001	.005	.012	.023	.039	.004	.001	NIL
	31064	17 Berkshire Ave. Toronto	243	.001	.001	.001	.003	.008	.023	.030	.003	.001	NIL
	31103	26 Breadalbane Toronto Backup	39	.001	.001	.002	.007	.030	.089	.090	.011	.002	NIL
	31104	26 Breadalbane Toronto	355	.001	.001	.001	.003	.009	.018	.041	.003	.001	NIL
	31120	Junction Triangle Perth Ave., Toronto	44	.001	.001	.001	.001	.002	.013	.013	.001	.001	NIL
	31123	26 Breadalbane Toronto	37	.001	.001	.001	.001	.005	.015	.015	.001	.001	NIL
	31124	26 Breadalbane Toronto	37	.001	.001	.001	.001	.001	.008	.010	.001	.001	NIL
	33003	Lawrence/Kennedy Scarborough	116	.001	.001	.001	.003	.012	.033	.054	.004	.001	NIL
	34002	Science Centre 770 Don Mills Rd., North York	116	.001	.001	.001	.002	.009	.012	.020	.002	.001	NIL
	34007	Bathurst/Wilson North York	103	.001	.001	.001	.001	.006	.014	.023	.002	.001	NIL
	35003	Elmcrest Rd. Etobicoke	115	.001	.001	.001	.002	.007	.020	.040	.002	.001	NIL
	35033	Evans/Arnold Ave. Etobicoke	110	.001	.001	.001	.002	.005	.015	.025	.002	.001	NIL
	35037	3050 Lakeshore Blvd. W. Etobicoke	332	.001	.001	.001	.002	.008	.021	.032	.002	.001	NIL
	44008	Hwy 2/North Shore Blvd. E. Burlington	47	.001	.001	.001	.001	.005	.011	.011	.002	.001	NIL
	44015	Bronte Rd./Woburn Cres. Oakville	45	.001	.001	.001	.001	.009	.019	.026	.002	.001	NIL
	45001	Pickering Fire Hall Pickering	318	.001	.001	.001	.005	.009	.046	.086	.004	.001	NIL
	45011	Public Library Oshawa	119	.001	.001	.001	.001	.006	.020	.020	.002	.001	NIL
	45060	Lasco Hopkins St. S. Whitby	88	.001	.001	.001	.010	.017	.024	.026	.006	.001	NIL
	46025	Mississauga Public Library Mississauga	54	.001	.001	.001	.002	.006	.009	.010	.002	.001	NIL
	46033	Bramalea Fire Hall Bramalea	56	.001	.001	.001	.002	.005	.012	.013	.002	.001	NIL
	47042	Armoury Bldg., Park/ Parkside St., Barrie	102	.001	.001	.001	.001	.006	.024	.044	.002	.001	NIL
	59006	City Hall 500 George St., Peterborough	96	.001	.001	.001	.001	.007	.019	.042	.002	.001	NIL
SOUTH EAST	51001	McDonald Gdns., Rideau/ Wurtemburg St., Ottawa	46	.001	.001	.001	.005	.018	.036	036	.006	.001	NIL
	54013	Post Office Bldg. Belleville	45	.001	.001	.001	.002	.010	.022	.022	.003	.001	NIL
	56051	Memorial Park York/Third St., Cornwall	48	.001	.001	.006	.010	.035	.101	.107	.014	.003	NIL
NORTH WEST	63005	Hospital, Archibald/ Arthur St., Thunder Bay	54	.001	.001	.001	.006	.059	.110	.116	.014	.002	NIL
	63022	Hospital, 35 Algoma St. N. Thunder Bay	52	.001	.001	.001	.001	.006	.014	.019	.002	.001	NIL
NORTH EAST	71022	Sault College Queens St., Sault Ste. Marie	61	.001	.001	.001	.001	.003	.007	.009	.001	.001	NIL
	71042	Bonney St. Pump House Sault Ste. Marie	72	.001	.001	.005	.014	.021	.090	.167	.011	.002	NIL
	71049	Land Reg. Office Queen St., Sault Ste. Marie	34	.001	.001	.001	.001	.003	.014	.015	.001	.001	NIL
	71066	Farwell Pumphouse Sault Ste. Marie	25	.001	.001	.001	.001	.004	.012	.013	.001	.001	NIL
	75010	OPP Station North Bay	54	.001	.001	.001	.001	.001	.017	.027	.001	.001	NIL
	77016	Ash St. Water Tank Sudbury	52	.001	.001	.001	.001	.009	.135	.157	.009	.001	NIL

Table 27 — *Continued . . .*

REGION	STATION NUMBER	LOCATION	NO. OF SAMPLES	PERCENTILES 10	30	50	70	90	99	MAX. CONC.	ARITH. MEAN	GEOM. MEAN	TIMES ABOVE CRITERION 24-HR
NORTH EAST	77026	19 Lisgar St. Sudbury	27	.001	.001	.001	.001	.010	.012	.012	.002	.000	NIL
	77070	Nickel St. Pump House Copper Cliff	27	.001	.001	.001	.001	.002	.016	.017	.001	.000	NIL
	77076	Post Office Falconbridge	26	.001	.001	.001	.001	.003	.010	.010	.001	.000	NIL

Table 28 **Summary of Data: Ontario's Air Pollution Index**

REGION	STATION NUMBER	LOCATION	TOTAL NO. OF HOURS	NUMBER OF HOURS 0-15	16-31	32-49	50-75	75-99	≥100	NUMBER OF HOURS MAXIMUM	≥ 32	≥ 50
SOUTH WEST	12008	467 University Ave. W. Windsor	8440	7649	791	0	0	0	0	26	NIL	NIL
	12016	College/South St. Windsor	8490	7915	571	4	0	0	0	33	4	NIL
	14064	Centennial Park Front St./CN Tracks, Sarnia	8670	8170	500	0	0	0	0	28	NIL	NIL
WEST CENTRAL	27037	North/Geneva St. St. Catharines	8489	8319	170	0	0	0	0	26	NIL	NIL
	27049	Murray/Buchanan Ave. Niagara Falls	1951	1921	30	0	0	0	0	17	NIL	NIL
	29025	Barton/Wentworth Hamilton	8665	6419	2220	26	0	0	0	37	26	NIL
CENTRAL	31104	26 Breadalbane Toronto	8569	7934	588	47	0	0	0	39	47	NIL
NORTH EAST	77016	Ash St. Water Tank Sudbury	8374	8244	113	17	0	0	0	39	17	NIL
	77028	Government/Edward St. Coniston	8412	8352	60	0	0	0	0	19	NIL	NIL
	77075	Kennedy St. New Sudbury	8357	8250	82	5	20	0	0	63	107	20

Table 29 **Ontario's Air Pollution Index**

Date Started:	TORONTO	MARCH 23, 1970	
	HAMILTON	JUNE 15, 1970	
	SUDBURY	JANUARY 16, 1971	
	WINDSOR	MARCH 19, 1971	
	HAPPY VALLEY	MAY 13, 1971	(Closed Jan. 1975)
	WELLAND	JANUARY 1, 1974	(Closed Oct. 1978)
	NIAGARA FALLS	NOVEMBER 1, 1974	
	CONISTON	FEBRUARY 18, 1975	
	NEW SUDBURY	MARCH 1, 1976	
	SARNIA	DECEMBER 1, 1977	
	ST. CATHARINES	SEPTEMBER 14, 1979	

YEAR	CITY	NUMBER OF OCCASIONS ≥ 32	≥50	MAXIMUM INDEX	DATE OF MAXIMUM
1970	TORONTO	17	2	56	Oct. 8
	HAMILTON	2	1	56	Oct. 8
1971	TORONTO	19	1	52	Apr. 13
	HAMILTON	23	NIL	48	Oct. 21
	SUDBURY	26	3	87	Dec. 11
	WINDSOR	2	NIL	33	Nov. 10
	HAPPY VALLEY	20	7	64	Nov. 21

Table 29

YEAR	CITY	NUMBER OF OCCASIONS ≥ 32	NUMBER OF OCCASIONS ≥ 50	MAXIMUM INDEX	DATE OF MAXIMUM
1972	TORONTO	2	NIL	45	Feb. 13
	HAMILTON	6	NIL	41	Feb. 13
	SUDBURY	7	1	79	June 12
	WINDSOR	9	1	53	Jan. 29
	HAPPY VALLEY	20	11	139	Mar. 23
1973	TORONTO	3	NIL	43	Oct. 24
	HAMILTON	2	NIL	34	Feb. 14
	SUDBURY	NIL	NIL	26	Mar. 14
	HAPPY VALLEY	19	10	94	Aug. 21
	WINDSOR	7	NIL	44	Feb. 19
1974	TORONTO	3	1	50	Oct. 29
	HAMILTON	11	NIL	44	Oct. 29
	SUDBURY	1	NIL	32	July 13
	WINDSOR	2	NIL	41	Jan. 7
	HAPPY VALLEY	24	13	116	Apr. 23
	NIAGARA FALLS	NIL	NIL	20	Nov. 9
	WELLAND	46	15	77	Oct. 6
1975	TORONTO	2	1	62	Nov. 20
	HAMILTON	10	NIL	38	Oct. 24
	SUDBURY	NIL	NIL	30	Feb. 1
	WINDSOR	NIL	NIL	28	Feb. 11
	WELLAND	NIL	NIL	23	Jan. 24
	NIAGARA FALLS	NIL	NIL	21	Nov. 24
	CONISTON	NIL	NIL	30	May 13
1976	TORONTO	1	NIL	33	Oct. 3
	HAMILTON	8	NIL	41	Dec. 16
	SUDBURY	NIL	NIL	28	June 6
	WINDSOR	1	NIL	34	Dec. 16
	WELLAND	NIL	NIL	24	Dec. 16
	NIAGARA FALLS	NIL	NIL	25	Feb. 21
	CONISTON	NIL	NIL	29	Sept. 16
	NEW SUDBURY	NIL	NIL	29	Apr. 2, 3 & June 20
1977	TORONTO	4	NIL	36	Jan. 15
	HAMILTON	10	NIL	44	Mar. 12
	SUDBURY	NIL	NIL	24	June 11
	WINDSOR (12008)	1	NIL	33	Apr. 19
	WELLAND	NIL	NIL	22	Jan. 24, 25
	CONISTON	NIL	NIL	25	Apr. 25
	WINDSOR (12016)	NIL	NIL	29	Apr. 19
	NEW SUDBURY	1	NIL	39	June 11
	SARNIA	NIL	NIL	15	Dec. 13
	NIAGARA FALLS	NIL	NIL	28	Feb. 21
1978	TORONTO	2	NIL	45	Nov. 5
	HAMILTON	7	NIL	43	Nov. 4
	SUDBURY	NIL	NIL	31	Jan. 22
	WINDSOR (12008)	1	NIL	33	Apr. 19
	WELLAND	NIL	NIL	24	Mar. 15
	NIAGARA FALLS	NIL	NIL	23	Nov. 4, Mar. 11
	CONISTON	3	NIL	34	Feb. 7
	WINDSOR (12016)	NIL	NIL	28	Feb. 18
	NEW SUDBURY	1	NIL	42	Feb. 2
	SARNIA	3	NIL	41	Jan. 24
1979	TORONTO	2	NIL	35	Oct. 18
	HAMILTON	23	1	55	Dec. 22
	SUDBURY	NIL	NIL	18	July 7
	WINDSOR (12008)	NIL	NIL	31	Feb. 20
	NIAGARA FALLS	NIL	NIL	27	Feb. 21
	CONISTON	NIL	NIL	31	Feb. 14
	NEW SUDBURY	NIL	NIL	28	Feb. 14
	SARNIA	2	NIL	43	Feb. 20
	ST. CATHARINES	NIL	NIL	29	Nov. 6
	WINDSOR (12016)	NIL	NIL	27	Feb. 21
1980	TORONTO	NIL	NIL	31	Dec. 8
	HAMILTON	5	NIL	40	Oct. 16
	SUDBURY	NIL	NIL	23	Oct. 16
	WINDSOR (12008)	NIL	NIL	25	Feb. 8, 9
	WINDSOR (12016)	NIL	NIL	25	Dec. 29
	NIAGARA FALLS	NIL	NIL	18	May 24
	CONISTON	NIL	NIL	30	Feb. 10, Mar. 9
	NEW SUDBURY	NIL	NIL	24	July 3, Oct. 16
	SARNIA	1	NIL	39	Mar. 20
	ST. CATHARINES	NIL	NIL	28	Feb. 20

Table 29 — *Continued...*

YEAR	CITY	NUMBER OF OCCASIONS ≥32	NUMBER OF OCCASIONS ≥50	MAXIMUM INDEX	DATE OF MAXIMUM
1981	TORONTO	3	NIL	43	Nov. 14
	HAMILTON	8	NIL	38	Nov. 15
	SUDBURY	NIL	NIL	21	Jan. 31
	WINDSOR (12008)	1	NIL	42	Nov. 17
	WINDSOR (12016)	NIL	NIL	31	Nov. 17
	NIAGARA FALLS	NIL	NIL	25	Jan. 14
	CONISTON	NIL	NIL	20	Nov. 25
	NEW SUDBURY	NIL	NIL	22	Jan. 28-29
	SARNIA	1	NIL	34	Feb. 16
	ST. CATHARINES	NIL	NIL	27	Jan. 14-15
1982	TORONTO	3	2	54	Oct. 27
	HAMILTON	12	NIL	39	Dec. 2
	SUDBURY	NIL	NIL	15	Feb. 3
	WINDSOR (12008)	NIL	NIL	31	Oct. 26-27
	WINDSOR (12016)	1	NIL	35	Oct. 27
	NIAGARA FALLS	NIL	NIL	19	Jan. 19
	CONISTON	1	NIL	39	Feb. 5
	NEW SUDBURY	NIL	NIL	29	Feb. 5
	SARNIA	NIL	NIL	27	Mar. 11, Nov. 7-8
	ST. CATHARINES	NIL	NIL	31	Nov. 18
1983	TORONTO	3	NIL	39	Jan. 29
	HAMILTON	1	NIL	37	Mar. 2
	SUDBURY	1	NIL	39	Jan. 22
	WINDSOR (12008)	NIL	NIL	26	Sept. 27
	WINDSOR (12016)	1	NIL	33	Mar. 1-2
	NIAGARA FALLS	NIL	NIL	17	Jan. 30
	CONISTON	NIL	NIL	19	Jan. 15
	NEW SUDBURY	1	1	63	Jan. 22
	SARNIA	NIL	NIL	28	Jan. 29
	ST. CATHARINES	NIL	NIL	23	Jan. 30

Table 30: **Summary of Data: Wind Direction — Wind Rose**

REGION	STATION NUMBER	LOCATION	LEVEL	HEIGHT IN METRES	NUMBER OF HOURS	PERCENT OF HOURS WIND BLOWING FROM N	NE	E	SE	S	SW	W	NW	CALM
SOUTH WEST	10024	Grand Bend Airport Grand Bend	1	10	3601	5.2	6.4	6.7	13.9	13.6	18.4	11.4	11.5	12.9
	12001	1.1 km NNE Keith G.S. Windsor	1	18	7942	11.1	8.5	6.5	7.0	10.6	12.8	9.7	10.8	22.9
			3	80	3124	9.4	6.9	11.3	6.4	8.9	12.3	23.5	9.4	11.9
	13021	MOE Pumping Stn. Middle Road, Merlin	1	9	8472	8.8	4.8	7.0	8.3	10.5	11.3	7.0	9.0	33.2
	14016	Opposite Lambton G.S. Hwy. 40, Courtright	1	10	8588	12.0	9.7	5.2	6.2	18.2	16.7	7.2	10.6	14.2
			2	30	8580	12.2	11.7	7.0	7.9	16.4	16.7	9.5	13.1	5.6
			3	91	8528	9.3	12.7	8.5	9.1	11.2	19.7	12.1	12.7	4.7
	14062	242 Indian Rd. S. Sarnia	1	9	8543	6.7	3.3	5.2	6.6	9.8	9.0	6.7	11.9	40.7
	15013	Parkhill Water Pumping Station	1	10	4078	7.1	3.6	3.1	10.5	9.1	15.1	10.0	9.1	32.4
	17006	St. Anthony's SS Hwy. No. 2, Beachville	1	10	8533	6.8	7.4	7.4	4.5	3.9	14.1	8.7	10.5	36.7
	18013	Bruce Nuclear Site Tiverton	1	10	8384	10.2	11.8	8.6	11.1	8.8	17.8	13.4	8.8	9.6
			2	30	8446	10.6	8.0	11.9	11.0	19.5	13.0	9.4	10.8	5.7
			3	100	7938	10.7	13.0	8.1	10.0	10.3	17.3	15.5	9.4	5.8
WEST CENTRAL	27011	Hydro SS Hwy. 58, Allanburg	1	10	8341	4.7	6.7	8.4	4.9	7.4	18.1	12.8	8.0	28.9
			2	37	8582	9.2	8.6	10.8	5.9	8.7	21.4	18.0	11.5	5.9

Table 30 — *Continued...*

REGION	STATION NUMBER	LOCATION	LEVEL	HEIGHT IN METRES	NUMBER OF HOURS	PERCENT OF HOURS WIND BLOWING FROM N	NE	E	SE	S	SW	W	NW	CALM
WEST CENTRAL	29026	Brampton/Woodward Hamilton	1	10	8390	8.6	12.5	12.6	2.1	3.0	18.3	20.1	9.0	13.8
			2	61	8504	9.1	10.8	13.5	10.6	0.9	9.1	25.2	13.0	7.8
CENTRAL	31025	Island Airport Toronto	1	10	8756	16.4	4.5	20.6	7.3	5.4	8.8	19.9	9.5	7.5
	31045	Bruce P.S. Larchmount Ave., Toronto	1	21	5723	18.2	12.6	9.1	8.4	5.0	5.8	6.4	12.4	22.1
	31120	Junction Triangle Perth Ave., Toronto	1	18	7740	15.8	3.0	10.3	8.4	6.2	9.6	12.0	13.3	21.3
	33003	Lawrence/Kennedy Scarborough	1	12	8564	16.1	4.4	10.8	7.8	5.7	8.1	12.4	10.8	23.9
			2	76	8581	10.0	8.1	17.0	4.7	9.6	15.4	12.3	18.0	4.8
	35033	Evans/Arnold Ave. Etobicoke	1	10	8032	17.5	5.7	8.7	9.6	5.9	6.9	11.8	11.1	22.9
			2	30	8476	19.3	5.9	10.1	12.0	6.3	9.5	13.9	14.1	8.9
			3	91	8462	19.5	7.2	11.6	12.4	6.2	10.5	15.1	13.4	4.0
	44015	Bronte Rd./Woburn Cres. Oakville	1	10	6250	8.5	2.4	7.7	5.3	5.6	3.7	14.2	11.7	41.5
	45025	Ritson Rd./Olive Ave. Oshawa	1	10	8261	12.0	5.4	5.1	12.0	4.0	3.1	16.0	7.4	35.0
	48002	Trailer, MTC Yard #9 Hwy. 47, Stouffville	1	10	8482	12.9	7.2	8.8	13.1	5.3	4.5	11.3	12.9	24.0
	58031	Filtration Plant Marsh St., Port Hope	1	10	8484	7.2	12.6	11.5	5.4	1.6	2.7	19.2	9.7	30.2
SOUTH EAST	56065	861 West Second St. Cornwall	1	9	8555	8.3	3.7	14.4	4.0	1.2	3.9	26.5	13.3	24.7
NORTH WEST	63084	Recreational Centre Red Rock	1	12	5447	10.5	13.8	4.0	11.8	9.3	4.7	4.1	13.4	28.4
	63090	St. Martin School Terrace Bay	1	12	7074	8.1	19.0	13.0	5.9	4.3	4.5	9.2	5.2	30.9
NORTH EAST	77013	Hammer Sudbury Airshed	1	10	6326	16.9	8.5	7.2	3.4	4.6	12.3	6.3	4.1	36.6
	77025	CKNC-TV, 699 Frood Rd. Sudbury	1	10	8068	17.3	12.0	10.4	3.0	5.9	19.0	14.9	7.9	9.6
			3	116	8367	14.2	4.9	3.7	4.0	7.3	23.6	16.4	20.4	5.7

Table 31: **Summary of Data: Ambient Air Temperature**
(temperatures in degrees Celsius)

REGION	STATION NUMBER	LOCATION	HEIGHT OF SENSOR (M)	NUMBER OF HOURS	MINIMUM	NUMBER OF HOURS TEMPERATURE ≤ -20	-20 to -10	-10 to 0	0 to 10	10 to 20	20 to 30	≥ 30	MAXIMUM	MEAN
SOUTH WEST	12001	1.1 km NNE Keith G.S. Windsor	18	8366	-21.5	38	194	1307	2743	2130	1871	83	33.2	10.0
	14016	Opposite Lambton G.S. Hwy. 40, Courtright	10	8591	-19.8	0	314	1601	2916	2289	1441	30	31.7	8.4
	18013	Bruce Nuclear Site Tiverton	10	8468	-17.5	0	247	1539	3170	2107	1405	0	29.6	7.9
WEST CENTRAL	27011	Hydro SS Hwy. 58, Allanburg	10	8622	-16.5	0	305	1498	2963	2238	1597	21	33.2	8.7
	29026	Brampton/Woodward Hamilton	10	8192	-16.6	0	232	1236	3234	1825	1538	127	35.9	9.2
CENTRAL	33003	Lawrence/Kennedy Scarborough	12	8484	-21.6	14	390	1416	3087	1852	1650	75	34.7	8.5
	35033	Evans/Arnold Ave. Etobicoke	10	8614	-20.9	10	308	1278	3184	1927	1813	94	36.0	9.3
NORTH EAST	77025	CKNC-TV, 699 Frood Rd. Sudbury	10	8538	-30.7	280	900	1839	2453	1952	1106	8	33.5	4.6

Table 32: **Summary of Data: Temperature Difference Level 2 — Level 1**
(all temperature changes in Celsius degrees)

REGION	STATION NUMBER	LOCATION	HEIGHT OF SENSOR (m)	HEIGHT DIFF. LEV. 2-LEV. 1(m)	NUMBER OF HOURS	ARITH-METIC MEAN	NUMBER OF HOURS TEMPERATURE DIFFERENCE						
							<-1.2	-1.2 to -.6	-.5 to -.4	-.3 to -.2	-.1 to .2	.3 to .9	>.9
SOUTH WEST	14016	Opposite Lambton G.S. Hwy. 40, Courtright	30	20	8594	-.09	178	738	1140	2362	2865	935	376
	18013	Bruce Nuclear Site Tiverton	30	20	8153	-.20	167	1767	2132	1751	1199	592	545
WEST CENTRAL	27011	Hydro SS Hwy. 58, Allanburg	37	27	8621	-.25	99	2902	1801	1322	1236	740	521
	29026	Brampton/Woodward Hamilton	61	51	7593	-.73	2051	3186	826	433	514	320	263
CENTRAL	33003	Lawrence/Kennedy Scarborough	76	64	8386	-.80	2846	3100	685	435	524	350	446
	35033	Evans/Arnold Ave. Etobicoke	30	20	8586	-.47	136	2601	3568	1533	610	115	23

Table 33: **Summary of Data: Temperature Difference Level 3 — Level 1**
(all temperature changes in Celsius degrees)

REGION	STATION NUMBER	LOCATION	HEIGHT OF SENSOR (m)	HEIGHT DIFF. LEV. 3-LEV. 1(m)	NUMBER OF HOURS	ARITH-METIC MEAN	NUMBER OF HOURS TEMPERATURE DIFFERENCE						
							<-4.9	-4.9 to -2.5	-2.4 to -1.7	-1.6 to -1.3	-1.2 to -0.4	-0.3 to 1.2	1.3 to 4.0	>4.0
SOUTH WEST	12001	1.1 km NNE Keith G.S. Windsor	80	62	8353	-.28	0	7	120	398	4408	2822	567	31
	14016	Opposite Lambton G.S. Hwy. 40, Courtright	91	81	8374	-.29	0	0	210	1030	4304	1940	741	149
	18013	Bruce Nuclear Site Tiverton	100	90	8523	-.39	0	74	501	1190	4048	1754	814	142
CENTRAL	35033	Evans/Arnold Etobicoke	91	81	6625	-.46	0	404	473	455	2983	1543	726	41
NORTH EAST	77025	CKNC-TV 699 Frood Rd., Sudbury	116	106	8621	-.38	0	23	55	422	5073	2660	381	7

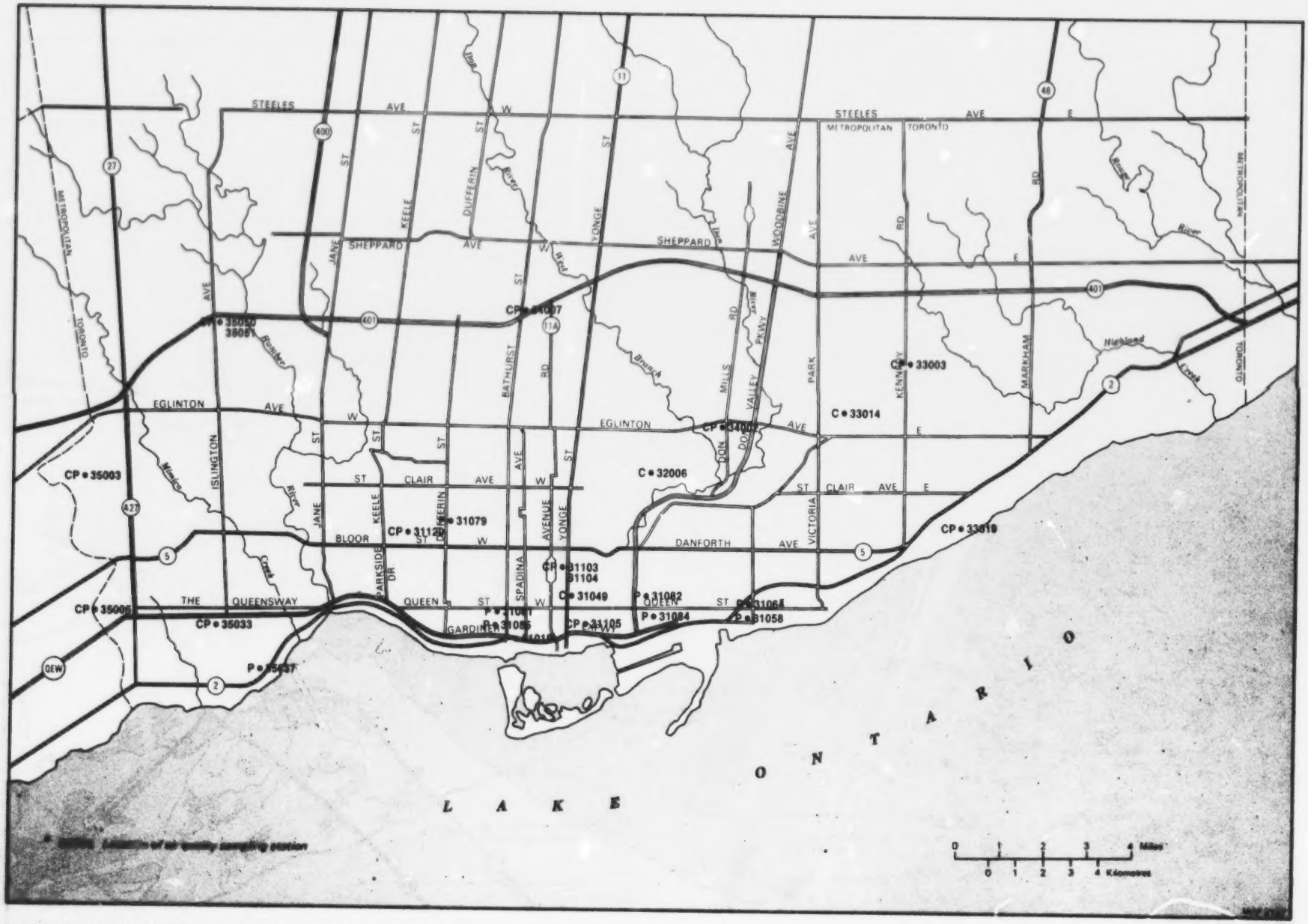

Figure 1. Locations of continuous (C) and particulate (P) sampling stations in Metropolitan Toronto (1983)

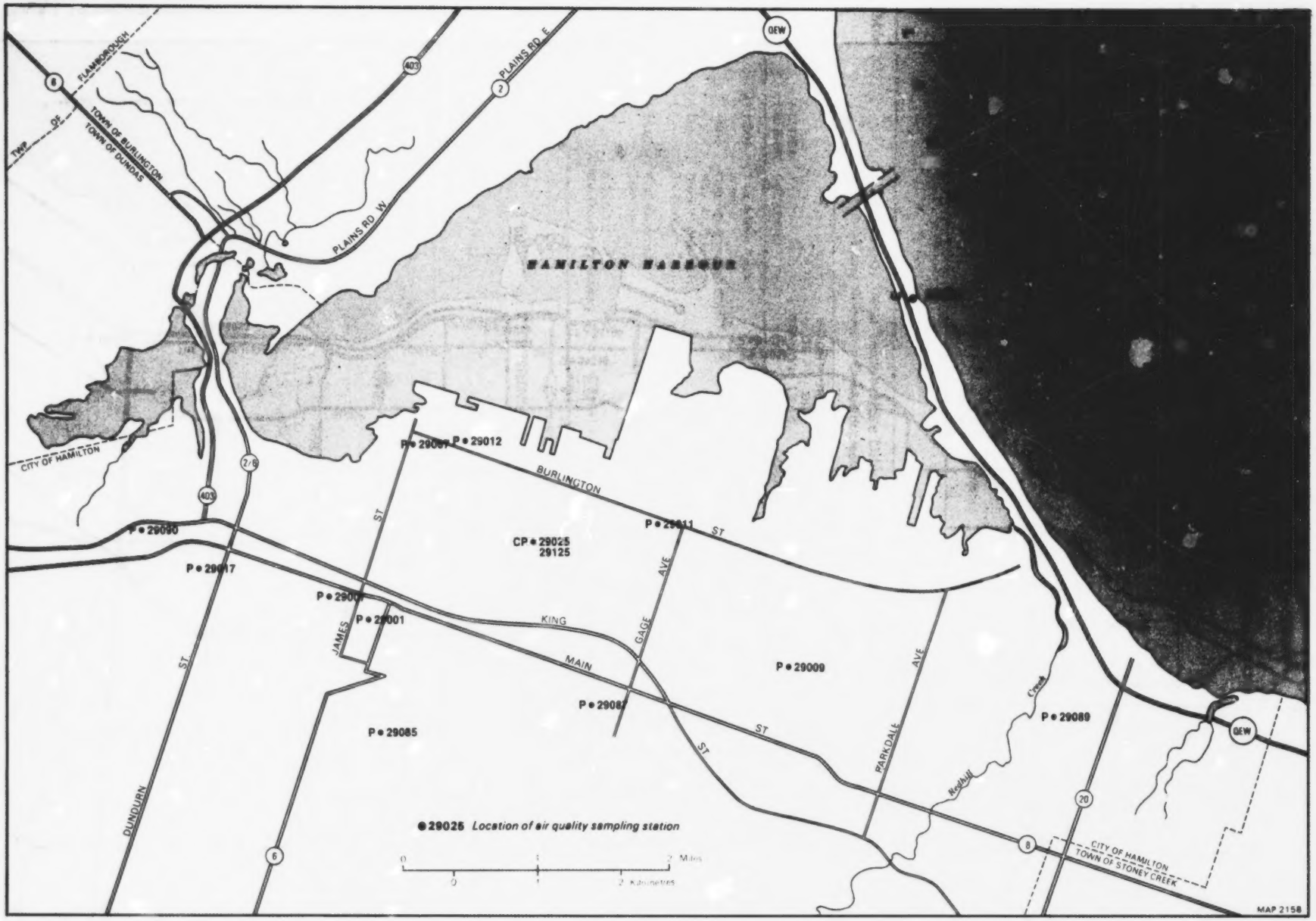

Figure 2. Locations of continuous (C) and particulate (P) sampling stations in Hamilton (1983)

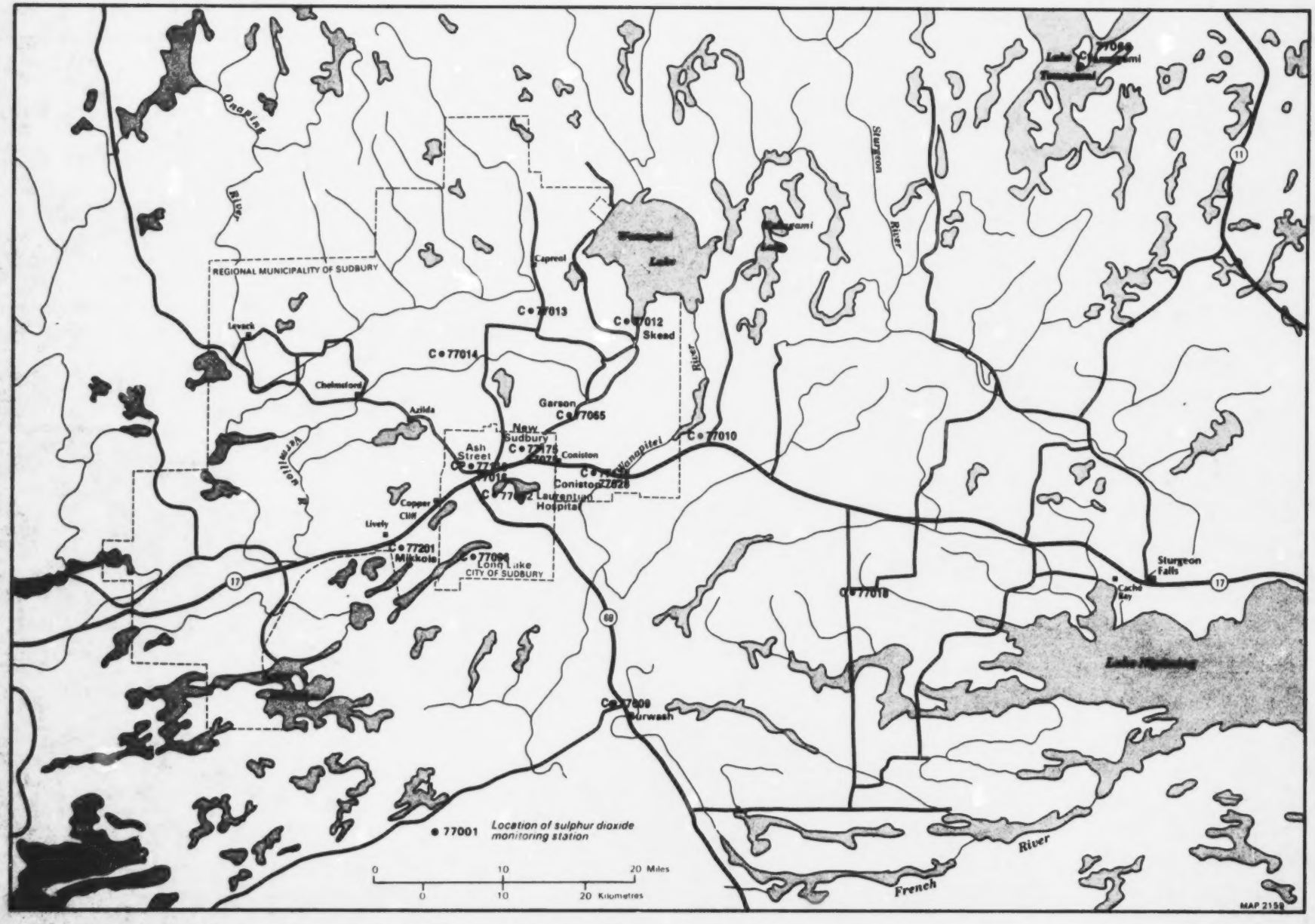

Figure 2. Locations of sulphur dioxide monitoring stations in the Sudbury area (1983)

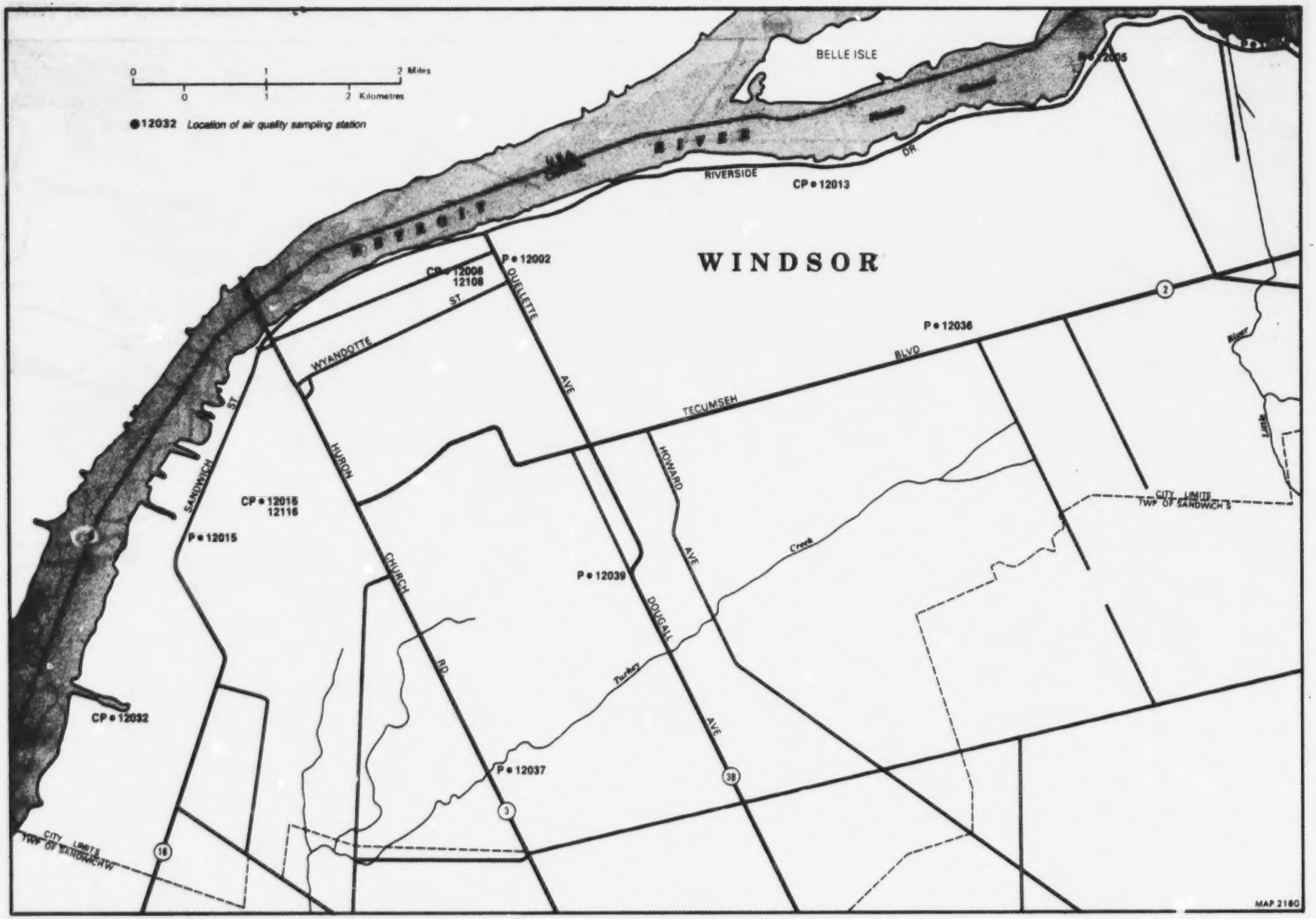

Figure 4. Locations of continuous (C) and particulate (P) sampling stations in Windsor (1983)